Service Manual

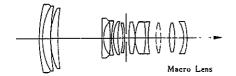
MINOLTA 110 ZOOM SLR MARK-II

CODE No. 0273



MINOLTA 110 ZOOM SLR MARK II (0273)

ZOOM ROKKOR-MACRO 25~67mm F3.5



Compact, Single-Lens-Reflex camera for No. 110 film cartridge with Zoom/Macro lens and automatic exposure control

LENS

Lens elements: 12 elements in 10 groups (Swing

macro element 13 elements in 11

groups)

Diaphragm

: Auto pre-set apertures

Aperture scale: 3.5 4 • 5.6 • 8 • 11 • 16

(* point intermediate click stops)

Diaphragm blade: 6 blades

Photo macrography: Setting the lens to its macro

position

SHUTTER

Speed

Type

: Metal-blade vertical traverse

type, stepless electronically

controlled (behind-the-lens type) : A (Auto) 1/4 to 1/1000 sec.

Manual speed X(1/125 sec.)

and B (blub)

Release

: Electromagnetic, shutter release

lock at low voltage

Shutter-control dial: Click stops L (shutter button

lock), A (Auto), X, B

Shutter blade : 2 blades

FLASH SYNC.

Sync. contact : X synchronization at 1/125 sec.

through-contact hot shoe only at X setting and stepless automatic

speed under 1/125 sec.

: LED at X(1/125) position blinks at flash-ready signal auto or manual mode with Auto Elect-

roflash 118X or other X-series

flashes use

FILM ADVANCE

Winding method: Lever type, single-stroke winding

(Several small strokes are impra-

Winding angle: Single 140° stroke after 20°

unengaged movement

Counter : Paper backing appear through the

film-data window

VIEW FINDER

: Eye-level pentaprism type

Focusing screen: Mat-fresnel-field focusing screen

with cental horizontally oriented

split-image focusing spot



(With action grip)

Visual field percentage: 85% (for the standard

frame, 13×17 mm)

Image magnification: $0.68 \times$ (at 25 mm) to $1.74 \times$

(at 67 mm) focused at infinity

Eyepiece correction: -1.1 to ± 0.8 diopter

: Quick-return type

Indication in viewfinder: Shutter speed indicator

1000 500 250 125 60-4

: Stepless speed indicated by 5 LEDs, LED over-/under-range indicators, LED at X (1/125) position blinks at flash-ready

signal

Eyepiece shutter: Built-in eyepiece shutter posit-

ion by lever

EXPOSURE CONTROL

Metering

: Full-aperture T.T.L center-weighted type by CdS cell with penta-

prism-mounted

Exposure control: Aperture-priority automatic

exposure

Exposure range: EV 5.6 to EV 17 (at ASA 100) ASA sensitivity setting: Film speed setting auto-

matically

Manual override: Up to ±2 EV continuous adjust-

ment in 1 EV steps with locks

FOCUSING

Focusing method: Front lens element focusing

Minimum focusing distance: 1.1 m (4 ft) 1.1 1.3 1.5 2 3 7

Focal length scale: 25 30 40 50 67

lmage magnification: $0.07 \times to 0.19 \times$

(film-to-subject distance of 890

to 200 mm)

SELF TIMER

Working time : Electronic, LED indicator, Approx. 10 sec. delay, Approx. 2.5 sec. before the exposure is made, the light will begin to blink faster

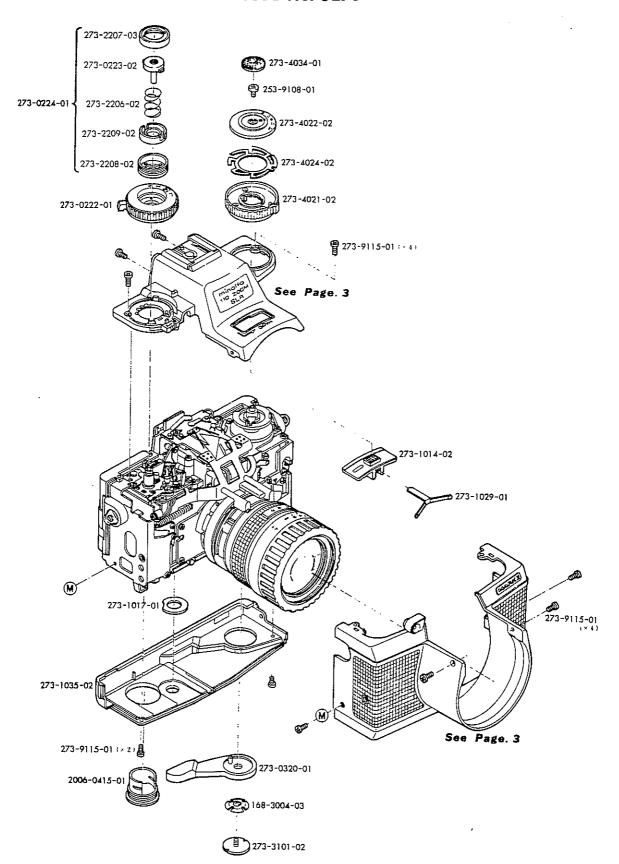
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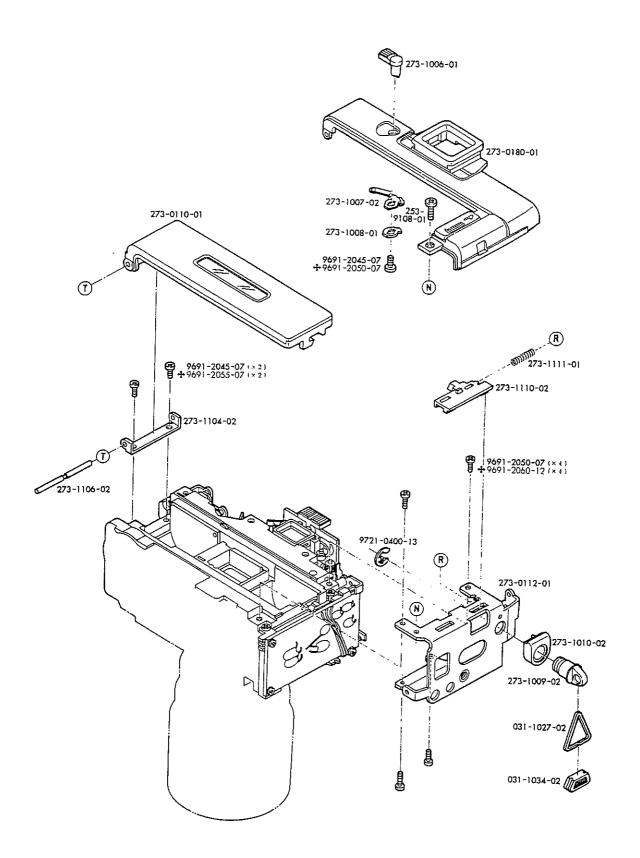
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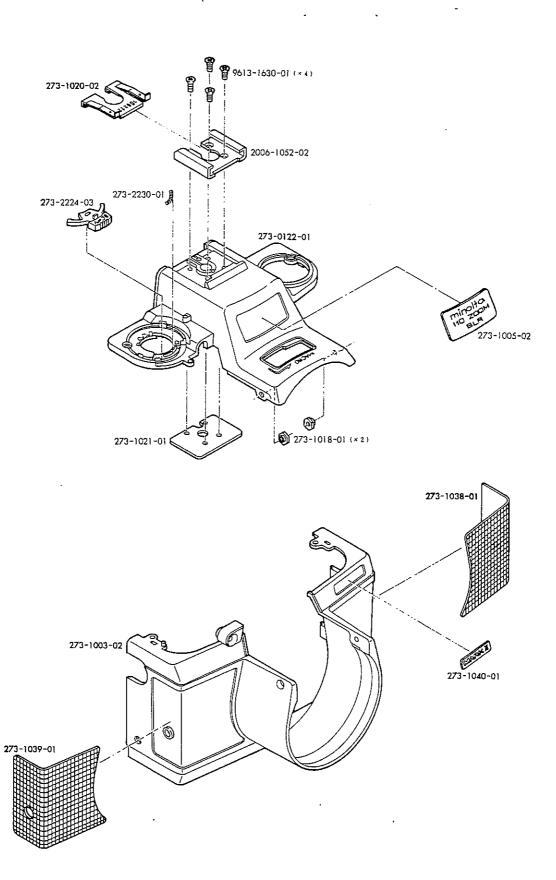
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| 273-0222-01 | Mode dial set モードダイヤルセット | 1 |
| 273-0224-01 | Shutter release button set レリーズ釦セット | 1 |
| 273-0223-02 | Shutter release button axis set レリーズ釦輪セット | 1 |
| 273-2206-02 | Shutter release button return spring レリーズ釦戻しSP | 1 |
| 273-2207-03 | Shutter release button pressure レリーズ知押え | 1 |
| 273-2208-02 | Shutter release button base レリーズ知座 | 1 |
| 273-2209-02 | Shutter release button guide レリーズ釦ガイド | 1 |
| 273-0320-01 | Film advance lever set 巻上レバーセット | 1 |
| 2006-0415-01 | Battery holder set 電池ケース登セット | 1 |
| 273-1014-02 | Macro lens knob マクロ作動つまみ | 1 |
| 273-1017-01 | Tripod socket receiver 三脚受板 | 1 |
| 273-1029-01 | Macro lens lock spring マクロロックばね | 1 |
| 273-1035-02 | Bottom cover 下カバー | 1 |
| 168-3004-03 | Film advance lever spring washer 巻上レバーSPワッシャー | 1 |
| 273-3101-02 | Film odvance lever pressure 巻上レバー押え | 1 |
| 273-4021-02 | F-number dial 絞りダイヤル | 1 |
| 273-4022-02 | F-number scale 絞り表示ダイヤル | 1 |
| 273-4024-02 | Over-ride spring washer オーバーライドスプリングワッシャー | 1 |
| 273-4034-01 | F-number dial plate 絞り飾り板 | 1 |
| 253-9108-01 | Screw 特殊ビス | 1 |
| 273-9115-01 | Screw 特殊ビス | 10 |



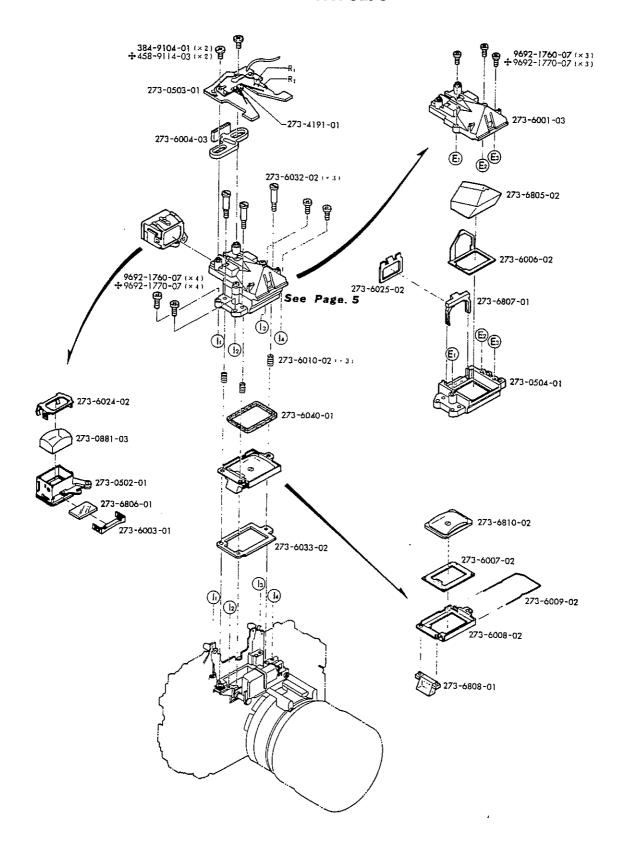
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| 273-0110-01 | Back cover set 裏蓋セット | 1 |
| 273-0112-01 | Cover mount plate set カバー取付板セット | 1 |
| 273-0180-01 | Rear cover set 後カバーセット | 1 |
| | | • |
| 273-1006-01 | Eye piece shutter lever アイシャッター操作レバー | 1 |
| 273-1007-02 | Eye piece shutter change lever アイシャッター切換レバー | 1 |
| 273-1008-01 | Change lever pressure アイシャッター切換レバー押え | 1 |
| 273-1009-02 | Strap hanger 吊 項 | 1 |
| 273-1010 - 02 | Strap hanger receiver-A 品環受A | 1 |
| 031-1027-02 | Strap hanger ring 三角吊環 | 1 |
| 031-1034-02 | Strap hanger ring stopper 三角環回り止め | 1 |
| 273-1104-02 | Hinge 裏蓋ヒンジ | 1 |
| 273-1106-02 | Hinge axis 裏蓋ヒンジ軸 | 1 |
| 273-1110-02 | Back cover lock lever 裏蓋ロック爪 | 1 |
| 273-1111-01 | Back cover lock spring 裏菱ロックSP | 1 |
| 253-9108-01 | Screw 特殊ビス | 1 |
| 9691-2045-07 | Phillips type tapping screw 十字穴付タッピンねじ | 3 |
| 9691-2050-07 | Phillips type tapping screw 十字穴付タッピンねじ | 4 |
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| 9721-0400-13 | E-ring Eリング | 1 |
| 4 9691-2050-07 | Screw for damaged hole バカ穴補正ビス | 1 |
| ± 9691-2055-07 | Screw for damaged hole バカ穴補近ビス | 2 |
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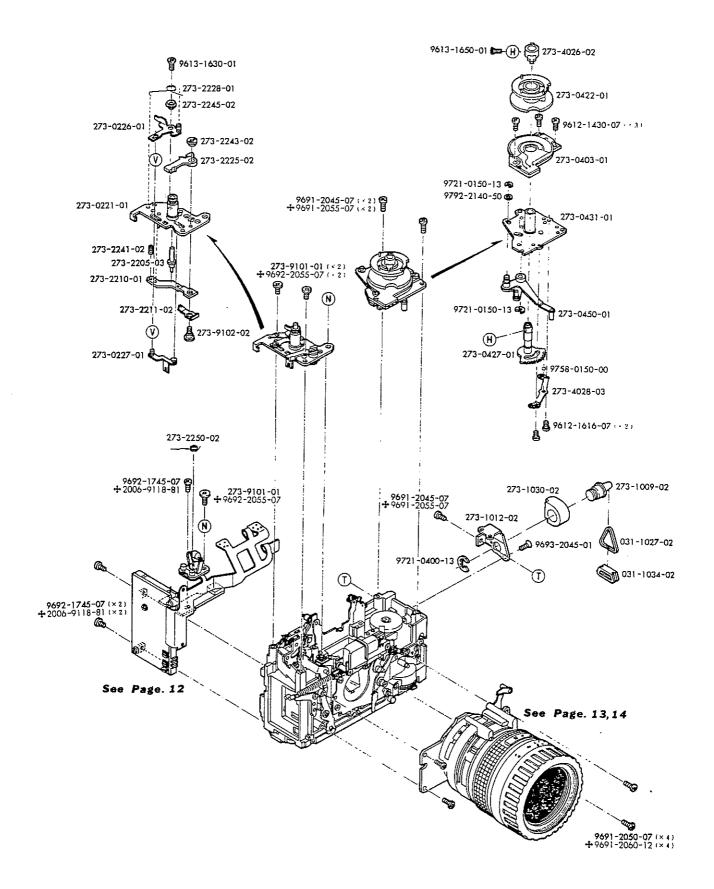
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| 273-0122-01 | Top cover set 上カパーセット | 1 |
| 273-1005-02 | Name plate-A 上カバー銘板 | 1 |
| 273-1018-01 | Nut 上カバー止めねじ受け | 2 |
| 273-1021-01 | Accessory shoe mount plate アクセサリーシュー取付板 | 1 |
| 2006-1052-02 | Accessory shoe アクセサリーシュー | 1 |
| 273-2224-03 | Self-timer lever セルフレバー | 1 |
| 273-2230-01 | B.C operation spring B.C作動SP | 1 |
| 9613-1630-01 | Phillips type screw 十字六付なべ頭小ねじ | 4 |
| 273-1003-02 | Front cover 正面カバー | 1 |
| 273-1020-02 | Accessory shoe spring アクセサリーシューばね | 1 |
| 273-1038-01 | Leather-A 正面貼皮A | 1 |
| 273-1039-01 | Leather - B 正面貼皮B | 1 |
| 273-1040-01 | Name plate-B 正面カバー銘板 | 1 |

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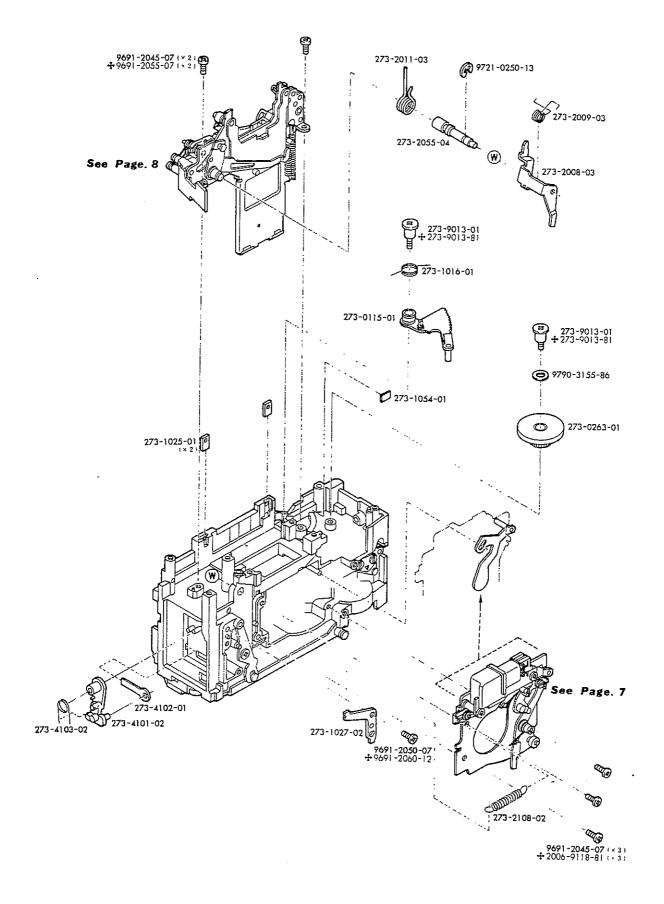


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| | 273-0502-01 | Eyepiece holder set 接眼レンズホルダーセット | 1 |
| | 273-0502-01 | CdS printed circuit plate set CdS基板セット | 1 |
| | 273-0504-01 | Penta. prism holder set プリズムホルダーセット | 1 |
| | 273-0881-03 | Eye piece set 接眼レンズセット | 1 |
| | 2/3-0861-03 | Lye piece ser jana | |
| | 273-4191-01 | CdS cell CdS | 1 |
| | 273-6001-03 | Penta. prism pressure プリズム押え | 1 |
| | 273-6003-01 | Protective glass receiver 保護ガラス受け | 1 |
| | 273-6004-03 | Eyepiece corrector 視度調節レバー | 1 |
| | 273-6006-02 | View finder frame 視野遮光枠 | 1 |
| | 273-6007-02 | View finder mask 視野マスク | 1 |
| | 273-6008-02 | Fresnel lens holder 焦点板ホルダー | 1 |
| | 273-6009-02 | Fresnel lens pressure 焦点板押之SP | 1 |
| | 273-6010-02 | VB adjusting spring VB 調整SP | 3 |
| | 273-6024-02 | Eyepiece lihht shield frame 接眼レンズ遮光枠 | 1 |
| | 273-6025-02 | Photometry prism shade plate 測光プリズム進光板 | 1 |
| | 273-6032-02 | V8 adjusting screw Vn調整ビス | 3 |
| | 273-6033-02 | VB adjusting plate VB調整板 | 1 |
| | 273-6040-01 | View finder dustproof sponge ファインダー防塵片 | 1 |
| | 273-6805-02 | Pentagonal prism ペンタブリズム | 1 |
| | 273-6806-01 | Protective glass 保護がラス | 1 |
| | 273-6807-01 | Photometry prism 測光プリズム | . 1 |
| | 273-6808-01 | L.E.D. reflector 光路棒 | 1 |
| | 273-6810-02 | Fresnel lens 無点板 | 1 |
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| | 9431-4757-31 | Adjusting resistor 4.7MQ 1/6 W | |
| | 9431-5657-31 | Adjusting resistor 5.6MQ 1/6W | ļ |
| | 9431-6857-31 | Adjusting resistor 6.8MQ 1/16 W | J |
| • | . , , , , , , , , , , , , , , , , , , , | Adjusting Tuesday States States | |
| | 9422-2226-36 | Adjusting resistor 2.2KN 1/8 P | ì |
| | 9422-3326-36 | Adjusting resistor 3.3KΩ 1/8 P | |
| | 9422-4326-36 | Adjusting resistor 4.3KΩ 1/8 P | |
| _ | 9422-5626-36 | Adjusting resistor 5.6KQ 1/8 P | Ι, |
| R 2 | 9422-6826-36 | Adjusting resistor 6.8KΩ 1/8 P | } 1 |
| | 9422-8226-36 | Adjusting resistor 8.2KΩ 1/8 P | |
| | 9422-1036-36 | Adjusting resistor 10K Ω $\frac{1}{8}$ P | |
| | 9422-1236-36 | Adjusting resistor $12K\Omega$ $\frac{1}{6}P$ | J |
| | | | |
| • | ÷ 458-9114-03 | Screw for damaged hole バカ穴補正ビス | 2 |
| • | ÷ 9692-1770-07 | Screw for damaged hole バカ穴補正ビス | 7 |

MINOLTA 110 ZOOM SLR MARK-II

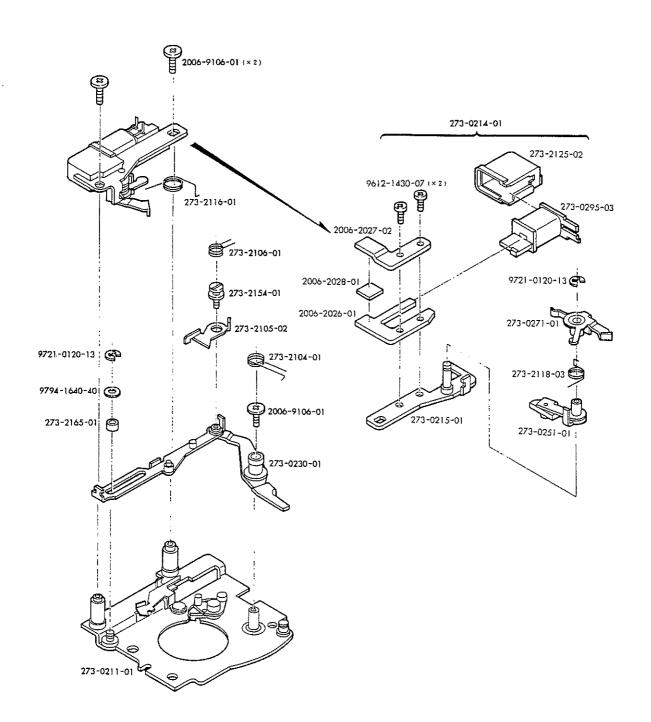


| 部品番号 | Part No. | · Part Name | Qty |
|---|-----------------------|--|--------|
| 273-0221-01 Mode base plate set モード台板セット 273-0227-01 Mode change lever set モード台様セット 273-0227-01 Mode transmission lever set モード台様セット 273-0403-01 Aperture setting circuit plate set 权り基板セット 1 273-0422-01 Resistor contact set 权り抵抗接片セット 273-0422-01 Aperture setting cam 校りカナセット 273-0431-01 Aperture setting base plate set 校り多様セット 273-0431-01 Aperture setting base plate set 校りダイヤル台板セット 273-0431-01 Aperture setting base plate set 校りダイヤル台板セット 273-1012-02 Cover mount plate-B カバー取付板B 1 1027-02 Strap hanger R 環 1 273-1012-02 Strap hanger receiver-B 市政会B 1 1031-1034-02 Strap hanger receiver-B 市政会B 1 273-2205-03 Release lever シリーズボ 273-2210-01 Release lever シリーズボ 273-2225-02 Self-timer change cam セルフ切除カム 273-2225-01 Mode change lever spring エトマ切除シバーSP 273-2241-02 Release lever spring エトマ切除シバーSP 273-2243-02 Release lever screw レリーズ腕せんス 273-2243-02 Release lever screw レリーズ腕せんズ 273-2250-02 B.C contact B.C技術 273-4028-03 Aperture connection plate なり没結板 1 273-4026-02 Aperture connection plate なり没結板 1 273-9101-01 Mode base plate screw モード行版士がビス 3 273-9101-01 Mode base plate screw モード行版士がビス 3 273-9101-01 Mode base plate screw モード行版士がビス 3 273-9101-01 Phillips type screw ヤデ穴付を介頭小ねじ 9613-1630-01 Phillips type screw ヤデ穴付を介頭小ねじ 9613-1630-01 Phillips type screw ヤデ穴付を介頭小ねじ 9613-1630-01 Phillips type screw ヤデ穴付を介頭小ねじ 9691-2045-07 Phillips type screw ヤデ穴付を介頭小ねじ 9691-1045-07 Phillips type screw ヤデ穴付を介頭小ねじ 9721-0150-13 E-ring Eリング 973-2140-50 Washer 滚ワッシャー 973-973-040-01 Screw for damaged hole パカ穴橋正ビス + 9691-2050-07 Screw for damaged hole パカ穴橋正ビス + 9691-2050-01 Screw for damaged hole パカ穴橋正ビス | | · - ·· · | |
| 733-0226-01 Mode change lever set モード団族レバーセット 1 273-0403-01 Resistor contact set 報り抵抗接片セット 1 273-0422-01 Resistor contact set 報り抵抗接片セット 1 273-0422-01 Aperture setting circuit plate set 被り落展セット 1 273-0422-01 Aperture setting com 較りカムセット 1 273-0429-01 Aperture setting base plate set 較り第イヤル台板セット 1 273-0450-01 Cam lever-B set 校りカムレバーBセット 1 273-1009-02 Strap hanger 高 環 1 273-1012-02 Cover mount plate-B カバー取材板B 1 301-1027-02 Strap hanger receiver-B 高級全B 1 301-1034-02 Strap hanger ring stopper 三角環 1 273-2205-03 Release lever レリーズ版 1 273-2210-01 Release lever レリーズ版 1 273-2225-02 Self-timer change cam セルフ切掛カム 1 273-2225-02 Self-timer change cam セルフ切掛カム 1 273-2241-02 Release lever sering レリーズ腕せんパーSP 1 273-2241-02 Release lever エリーズ腕世がえ 1 273-2250-02 B.C contact B.C接附 1 273-2250-02 B.C contact B.C接附 1 273-4026-02 Aperture connection plate 疑り提結板 1 273-4026-02 Aperture connection plate 疑り提結板 1 273-9101-01 Mode base plate screw モード行敗止が上ス 3 273-9101-01 Mode base plate screw モード行敗止が上ス 3 273-9101-01 Mode base plate screw ナデ六行な小領小ねじ 1 9612-1616-07 Phillips type screw ナデ六行な小領小ねじ 1 9613-1630-01 Phillips type screw ナデ六行な小領小ねじ 1 9613-1630-01 Phillips type screw ナデ六行な小領小ねじ 1 9691-2045-07 Phillips type screw ナデ六行な小領小ねじ 1 9691-2045-07 Phillips type screw ナデ六行な小野・カピ・カプ・サービ・カピ・カプ・サービ・カピ・カプ・サービ・カピ・カーア・サービ・カーア・サービ・カピ・カーア・サービ・カピ・カーア・サービ・カーア・カーア・サービ・カーア・カーア・サービ・カーア・カーア・サービ・カーア・カーア・サービ・カーア・カービ・カーア・オード・カーア・カーア・カーア・カーア・カーア・カーア・カーア・カーア・カーア・カーア | ल माववप्रव | the MrF. M. | |
| 73-0227-01 Mode transmission lever set モード伝達レバーセット 1 273-0403-01 Aperture setting circuit plate set 校り基板セット 1 273-0427-01 Aperture setting cam 校りカムセット 1 273-0427-01 Aperture setting cam 校りカムセット 1 273-0450-01 Cam lever-B set 校りカムレバーBセット 1 273-1050-02 Strap hanger 希 環 1 273-1012-02 Cover mount plate-B カバー取材板B 1 031-1027-02 Strap hanger receiver-B 高級全B 1 031-1034-02 Strap hanger receiver-B 高級全B 1 031-1034-02 Strap hanger receiver-B 高級全B 1 031-1034-02 Strap hanger receiver-B 高級全B 1 273-2210-01 Release axis レリーズボー 1 273-2210-01 Release lever レリーズボー 1 273-2210-02 Release lever シリーズボー 1 273-2241-02 Release lever spring レリーズ航路P 1 273-2241-02 Release diver spring モード切換レバーSP 1 273-2241-02 Release lever spring モード切換レバーSP 1 273-2245-02 Release lever screw レリーズ航出的ビス 1 273-2240-02 Release lever ないま モード切換レバー軸 1 273-2250-02 Release lever axis モード切換レバー軸 1 273-2101-01 Rode change lever axis モード切換レバー 1 273-2240-02 Release lever xcrew レリーズ航出的ビス 1 273-2101-01 Rode change lever axis モード切換レバー 1 273-2250-02 Rode change lever axis モード対機セバー 1 273-2101-01 Rode base plate screw モード行板止めビス 1 273-9101-01 Rode base plate screw モード行板止めビス 3 273-9102-02 Screw 特殊ビス 1 273-9102-02 Rode plate screw モード介板中のビス 3 273-9102-03 Rode plate screw モード介板中のビス 3 273-9102-04 Phillips type screw 十字穴様々が倒り出じ 1 2613-1430-07 Phillips type screw 十字穴様々が倒り出じ 3 2691-2050-07 Phillips type screw 十字穴様々が倒り出じ 3 2691-2050-07 Phillips type screw 十字穴様々がピンカビ 4 2792-1-0400-13 E-ring Eリング 2 273-1-0400-13 E-ring Eリング 2 273-1-0400-13 E-ring Eリング 2 275-1-0400-13 E-ring Eリング 3 275-1-0400-13 E-ring Eリング 3 275-1-0400-14 E-ring Eリング 3 275-1-0400-13 E-ring Eリング 4 275-1-0400-14 E-ring Eリング 4 275-1-0400- | 273-0221-01 | · | • |
| 273-0422-01 Aperture setting circuit plate set 較り蹇級セット 1 273-0422-01 Resistor contact set 叙り抵抗接片セット 1 273-0427-01 Aperture setting com 校りカムセット 1 273-0431-01 Aperture setting base plate set 紋りダイヤル台板セット 1 273-0450-01 Cam lever-B set 紋りカムレパーBセット 1 273-01012-02 Strap hanger A 環 1 273-1012-02 Strap hanger receiver-B A 現役 1 273-1030-02 Strap hanger receiver-B A 現役 1 273-21030-02 Strap hanger receiver-B A 現役 1 273-2210-02 Strap hanger receiver-B A 現役 1 273-2210-03 Release axis レリーズ版 1 273-221-02 Release lever レリーズ版 1 273-221-02 Release lever シリーズ版 1 273-2228-01 Mode change lever spring レリーズ脱野クトラション 273-2228-01 Mode change lever spring モード財操レバーSP 1 273-2243-02 Release lever screw レリーズ脱電がとス 1 273-2245-02 Mode change lever axis モード財操レバー輪 1 273-2245-02 Aperture coinection plate 紋り遅起版 1 273-4026-02 Aperture coinection plate 紋り遅起版 1 273-9101-01 Mode base plate screw モード右板正がピス 3 9612-1616-07 Phillips type screw 十字次付を小鍋小ねじ 9613-1630-01 Phillips type screw 十字次付金小鍋小ねじ 1 9721-0150-13 E-ring Eリンク 2 9721-0400-13 E-ring Eリンク 2 973-0150-00 Steel ball スチールボール 1 + 2006-9118-81 Screw for damaged hale バカ次橋正ピス 3 + か991-2055-07 Screw for damaged hale バカ次橋正ピス 4 | 273-0226-01 | Mode change lever set モード切換レバーセット | |
| 273-0422-01 Resistor contact set 裁り抵抗操告セット | 273-0227-01 | | |
| 273-0427-01 Aperture setting com 校りカムセット 273-0431-01 Aperture setting base plate set 紋りダイヤル台板セット 273-0450-01 Cam lever-B set 紋りカムレバーBセット 273-1012-02 Cover mount plate-B カバー取材板B 031-1027-02 Strap hanger ring 三角角域 1031-1027-02 Strap hanger receiver-B 高級全B 031-1034-02 Strap hanger receiver-B 高級全B 031-1034-02 Strap hanger ring stopper 三角環側り止め 1273-2210-01 Release lever レリーズ版 1273-2211-02 Release lever レリーズ版 1273-2210-01 Release lever spring レリーズ航SP 273-2228-01 Mode change lever spring モード切換レバーSP 273-2228-01 Mode change lever suring モード切換レバーSP 273-2241-02 Release dijusting screw レリーズ職をビス 273-2245-02 B.C contact B.C 後件 1273-2250-02 B.C contact B.C 後件 1273-4026-02 Aperture connection plate 紋り運輸板 1 273-4028-03 Aperture click spring 紋りクリックばね 1 273-9101-01 Mode base plate screw モード育板止めせえ 3 273-9102-02 Screw 持株ビス 1 1 9612-1430-07 Phillips type screw セド京育食の卵中など 3 9613-1630-01 Phillips type screw セド京育食の卵中など 3 9691-2045-07 Phillips type screw セド京育食の卵中など 3 9691-2050-07 Phillips type tapping screw セド京育りのピンカセ 4 9691-2045-07 Phillips type tapping screw セド京育りのピンカセ 4 9691-2045-01 Phillips type tapping screw セド京育りのピンカセ 4 9792-1745-07 Phillips type tapping screw セド京育りのピンカセ 3 9792-1040-01 E-ring Eリンク 9738-0150-00 Steel ball スチールボール 1 + 2006-9118-81 Screw for damaged hole バカ穴補正ビス 3 + 9691-2055-07 Screw for damaged hole バカ穴補正ビス 4 + 9691-2055-07 Screw for damaged hole バカ穴補正ビス 4 | 273-0403-01 | • | • |
| 273-0450-01 Aperture setting base plote set 紋 切 ダイヤル 音板セット | 273-0422-01 | | • |
| 273-1009-02 Strap hanger 品 項 273-1012-02 Cover mount plate-B カバー取付板B 1031-1027-02 Strap hanger ring 三角吊環 273-1030-02 Strap hanger receiver-B 吊原役B 11-1034-02 Strap hanger ring stopper 三角原図B 273-2205-03 Release axis レリーズボ 273-2210-01 Release lever レリーズ酸 273-2210-01 Release lever レリーズ酸 273-2228-01 Mode change lever spring レリーズ酸SP 273-2228-02 Release adjusting screw レリーズ酸性がイーシア 273-2243-02 Release lever spring モード切換レバーSP 273-2243-02 Release lever spring モード切換レバーSP 273-2243-02 Release lever spring モード切換レバーSP 273-2243-02 Release lever screw レリーズ酸性がイー製作がイー製作がイー製作がイー製作がイー製作がイー製作がイー製作がイー製作 | 273-0427-01 | · | • |
| 273-1009-02 Strap hanger 高 環 1 273-1012-02 Cover mount plate-B カバー取付板B 1 1 031-1027-02 Strap hanger ring 三角吊環 1 273-1030-02 Strap hanger receiver-B 品球会B 1 273-1030-02 Strap hanger receiver-B 品球会B 1 273-2205-03 Release axis レリーズ版 1 273-2210-01 Release lever レリーズ版 1 273-2210-02 Release lever pring レリーズ版SP 1 273-2225-02 Self-timer change cam セルフの扱力ム 1 273-2214-02 Release lever spring レリーズMSP 1 273-2243-02 Release lever spring レリーズMSP 1 273-2245-02 Mode change lever spring モード切換レバーSP 273-2245-02 Mode change lever axis モード切換レバー糖 1 273-2245-02 Mode change lever axis モード切換レバー糖 1 273-2100-02 Release lever screw レリーズ概要は 1 273-4026-03 Aperture connection plate 秘り理結成 1 273-9101-01 Mode base plate screw モード合板止めビス 3 273-9102-02 Screw 特殊ビス 1 273-9101-01 Phillips type screw 十字次付を不統中ねじ 9612-1616-07 Phillips type screw 十字次付を不統中ねじ 9613-1650-01 Phillips type screw 十字次付を小部中ねじ 9691-2045-07 Phillips type tapping screw 十字次付タッビンねじ 9692-1745-07 Phillips type tapping screw 十字次付タッビンねじ 3 9693-2045-01 Phillips type tapping screw 十字次付タッビンねじ 4 9721-0400-13 E-ring Eリンク 2 9721-0400-13 E-ring Eリンク 973-050-00 Steel ball スチールボール 1 + 2006-9118-81 Screw for damaged hole バカ次補正ビス 3 + 9691-2055-07 Screw for damaged hole バカ次補正ビス 4 4 9691-2055-07 Screw for damaged hole バカ次補正ビス 4 4 9691-2055-07 Screw for damaged hole バカ次補正ビス 4 | 273-0431-01 | | |
| 273-1012-02 Cover mount plate-B カバー取付板B 1 273-1030-02 Strap hanger ring 三角吊環 1 273-1030-02 Strap hanger receiver-B 吊環交B 1 273-1030-02 Strap hanger ring stopper 三角環側り止め 1 273-2205-03 Release axis レリーズボ 1 273-2210-01 Release lever レリーズボ 1 273-2210-02 Release lever spring レリーズボ 5 273-2221-02 Release lever spring レリーズ | 273-0450-01 | Cam lever-B set 絞りカムレバーBセット | 1 |
| 273-1012-02 Cover mount plate-B カバー取付板B 1 273-1030-02 Strap hanger ring 三角吊環 1 273-1030-02 Strap hanger receiver-B 吊環交B 1 273-1030-02 Strap hanger ring stopper 三角環側り止め 1 273-2205-03 Release axis レリーズボ 1 273-2210-01 Release lever レリーズボ 1 273-2210-02 Release lever spring レリーズボ 5 273-2221-02 Release lever spring レリーズ | | | 1 |
| 273-10127-02 Strap hanger ring 三角尾環 1 273-1030-02 Strap hanger receiver-B 吊環受B 1 273-1030-02 Strap hanger receiver-B 吊環受B 1 273-1030-02 Strap hanger ring stopper 三角環間り止め 1 273-2210-01 Release lever レリーズ版 1 273-2211-02 Release lever シリーズ版 1 273-2212-02 Self-timer change cam セルフ切換カム 1 273-2228-01 Mode change lever spring モード切換レバーSP 1 273-2243-02 Release lever screw レリーズ版を送る 1 273-2245-02 Mode change lever axis モード切換レバーSP 1 273-2245-02 Mode change lever axis モード切換レバー輪 1 273-2245-02 Mode change lever axis モード切換レバー輪 1 273-4026-02 Aperture connection plate 紋の連結板 1 273-4026-02 Aperture click spring 紋りクリックばね 1 273-9101-01 Mode base plate screw モード合校正めビス 3 273-9102-02 Screw 特殊ビス 1 9612-1430-07 Phillips type screw 十字穴付を小頭小ねじ 2 9613-1630-01 Phillips type screw 十字穴付加小ねじ 1 9631-1630-01 Phillips type screw 十字穴付加小ねじ 1 9691-2045-07 Phillips type tapping screw 十字穴付かっピンねじ 3 9692-1745-07 Phillips type tapping screw 十字穴付かっピンねじ 3 9721-0150-13 E-ring Eリンク 2 9721-0400-13 E-ring Eリンク 2 9721-0400-13 E-ring Eリンク 2 9738-0150-00 Steel ball スチールボール 1 + 2006-9118-81 Screw for damaged hole バカ穴補正ビス 3 + 9691-2055-07 Screw for damaged hole バカ穴補正ビス 3 + 9691-2055-07 Screw for damaged hole バカ穴補正ビス 3 | | , - | , |
| 373-1030-02 Strap hanger receiver-B 品環受目 1 273-1030-02 Strap hanger receiver-B 品環受目 1 273-1030-02 Strap hanger receiver-B 品環受目 1 273-2205-03 Release axis レリーズ版 1 273-2210-01 Release lever レリーズ版 1 273-2211-02 Release lever シリーズ版 1 273-2215-02 Self-timer change cam セルフ切換カム 1 273-2228-01 Mode change lever spring モード切換レバーSP 1 273-2241-02 Release lever screw レリーズ臓性のビス 1 273-2245-02 Mode change lever axis モード切換レバー結 1 273-2245-02 Mode change lever axis モード切換レバー結 1 273-2250-02 B.C contact B.C 接所 1 273-4026-02 Aperture connection plate 紋の連結板 1 273-4026-03 Aperture click spring 紋のクリックばね 1 273-9101-01 Mode base plate screw モード合板止めビス 3 273-9102-02 Screw 特殊ビス 1 2612-1430-07 Phillips type screw モア穴付を不動かむじ 1 2613-1630-01 Phillips type screw エア穴付血がむじ 1 2613-1630-01 Phillips type screw エア穴付血がむじ 1 2613-1650-01 Phillips type screw エア穴付血がむじ 1 2691-2045-07 Phillips type screw エア穴付血がむじ 1 2691-2050-07 Phillips type tapping screw エア穴付きッピンねじ 4 2692-1745-07 Phillips type tapping screw エア穴付きッピンねじ 4 273-2045-01 Phillips type tapping screw エア穴付きッピンねじ 4 273-2045-01 Phillips type tapping screw エア穴付きッピンねじ 4 273-2050-07 Phillips type tapping screw エアバ付きッピンねじ 4 273-2050-07 Phillips type tapping screw エアバ付きのでは 4 273-270-2050-07 Phillips type tapping screw エアバ付きのでは 4 273-270-270-270-270-270-270-270-270-270-270 | | | |
| 1 1031-1034-02 Strap honger ring stopper 三角環间り止め | | • | |
| 273-2205-03 Release axis レリーズ芯 1 273-2210-01 Release lever レリーズ版 1 273-2211-02 Release lever spring レリーズ版 1 273-2211-02 Release lever spring レリーズ版 1 273-2225-02 Self-timer change cam セルフ切換カム 1 273-2228-01 Mode change lever spring モード切換レバーSP 1 273-2241-02 Release adjusting screw レリーズ調整ビス 1 273-2243-02 Release lever screw レリーズ調整ビス 1 273-2245-02 Mode change lever axis モード切換レバー軸 1 273-2250-02 R.C contact B.C 按片 1 273-4026-02 Aperture connection plate 絞り遅結板 1 273-4028-03 Aperture click spring 絞りクリックばね 1 273-9101-01 Mode base plate screw モード合核止めビス 3 273-9102-02 Screw 持殊ビス 1 9612-1430-07 Phillips type screw 十字穴付なべ頭小ねじ 2 9613-1630-01 Phillips type screw 十字穴付なべ頭小ねじ 2 9613-1650-01 Phillips type screw 十字穴付金へ頭小ねじ 1 9691-2045-07 Phillips type screw 十字穴付金へ頭小ねじ 1 9691-2045-07 Phillips type tapping screw 十字穴付タッビンねじ 3 9691-2050-07 Phillips type tapping screw 十字穴付タッビンねじ 3 9693-2045-01 Phillips type tapping screw 十字穴付タッビンねじ 1 9721-0150-13 E-ring Eリンク 2 9721-0400-13 E-ring Eリンク 2 9721-0400-13 E-ring Eリンク 2 9721-0400-13 E-ring Eリンク 2 9721-0400-13 E-ring Eリンク 3 9758-0150-00 Steel ball スチールボール 1 + 2006-9118-81 Screw for damaged hole バカ穴補正ビス 3 + 9691-2055-07 Screw for damaged hole バカ穴補正ビス 3 + 9691-2050-12 Screw for damaged hole バカ穴補正ビス 3 | | • | • |
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| 9792-2140-50 Washer 薄ワノシャー 1 9758-0150-00 Steel ball スチールボール 1 + 2006-9118-81 Screw for damaged hole パカ穴補正ビス 3 + 9691-2055-07 Screw for damaged hole パカ穴補正ビス 3 + 9691-2060-12 Screw for damaged hole パカ穴補正ビス 4 | | - | 1 |
| 9758-0150-00 Steel ball スチールボール 1 + 2006-9118-81 Screw for damaged hole バカ穴補正ビス 3 + 9691-2055-07 Screw for damaged hole バカ穴補正ビス 3 + 9691-2060-12 Screw for damaged hole バカ穴補正ビス 4 | | - | 1 |
| + 2006-9118-81 Screw for damaged hole パカ穴補正ビス 3 + 9691-2055-07 Screw for damaged hole パカ穴補正ビス 3 + 9691-2060-12 Screw for damaged hole パカ穴補正ビス 4 | | | |
| +9691-2055-07 Screw for damaged hole パカ穴補正ビス 3 +9691-2060-12 Screw for damaged hole パカ穴補正ビス 4 | 9758-0150-00 | Steel ball スチールボール | 1 |
| +9691-2055-07 Screw for damaged hole パカ穴補正ビス 3 +9691-2060-12 Screw for damaged hole パカ穴補正ビス 4 | | | |
| + 9691-2060-12 Screw for damaged hole バカ穴補正ビス 4 | ± 2006-9118-81 | | 3 |
| · | + 9691-2055-07 | Screw for damaged hole パカ穴補正ビス | 3 |
| + 9692-2055-07 Screw for damaged hale バカ穴補正ビス 3 | + 9691-2060-12 | Screw for damaged hole パカ穴補正ビス | 4 |
| | ÷ 9692-2055-07 | Screw for damaged hale バカ穴補近ビス | 3 |

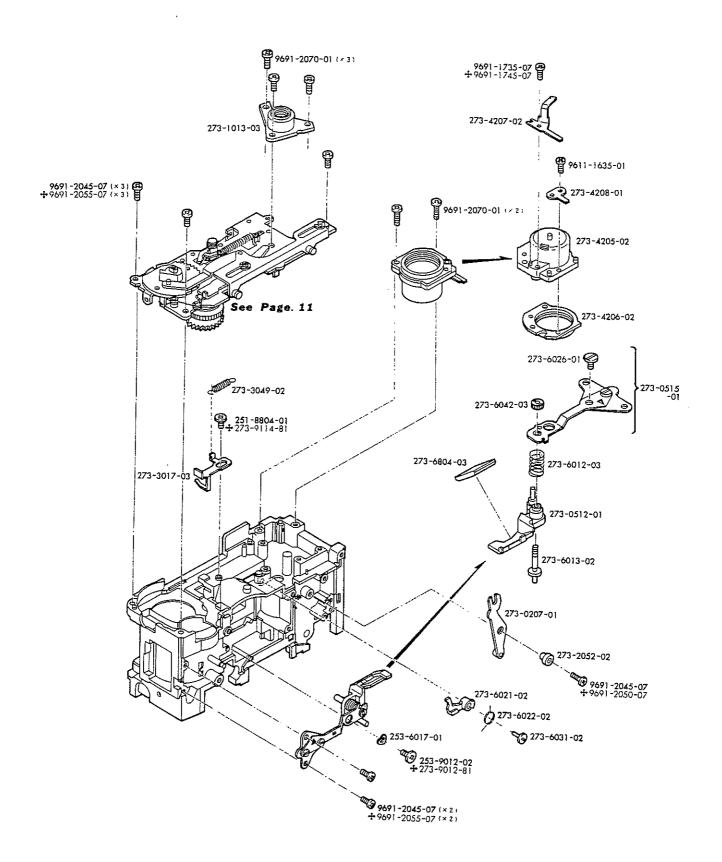


| Part No., | Part Name | Qty |
|---------------------------|---|-----|
| 部品番号 | 部 品 名 称 | 員数 |
| 273-0115-01 | Release connecting lever set レリーズ運動レバーセット | 1 |
| 273-0263-01 | Fly-wheel set フライホイルセット | 1 |
| 273-1016-01 | Release connecting lever spring レリーズ連動レバーSP | 1 |
| 273-1025-01 | Top cover set plate 上カバー止め板 | 2 |
| 273-1027-02 | Release operation plate spring hanger レリーズ駆動板SP掛け | 1 |
| 273-1054-01 | Release connecting lever stopper レリーズ連動レバーストッパーゴム | 1 |
| 273-2008-03 | Shutter charge plate シャッターチャージねじれ板 | 1 |
| 273-2009-03 | Shutter charge return spring シャッターチャージ戻しSP | 1 |
| 273-2011-03 | Over charge spring シャッターオーバーチャージSP | 1 |
| 273-2055-04 | Shutter charge axis シャッターチャージ軸 | 1 |
| 273-2108-02 | Release operation plate spring レリーズ駆動板SP | 1 |
| 273-4101-02 | ASA change lever ASA切換レバー | 1 |
| 273-4102-01 | ASA detection lever ASA検知レバー | 1 |
| 273-4103-02 | ASA change lever spring ASA切換レバーSP | 1 |
| 273-9013-01. | Release connecting lever axis レリーズ運動レバー軸 | 2 |
| 9691-2045-07 | Phillips type tapping screw 十字穴付タッピンねじ | 5 |
| 9691-2050-07 | Phillips type tapping screw 十字次付タッピンねじ | ι |
| 9721-0250-13 | E-ring Eリング | 1 |
| 9790-3155-86 | Washer 薄ワッシャー | 1 |
| + 273-9013-81 | Screw for damaged hole バカ穴補正ビス | 2 |
| - 2006-9118-81 | Screw for damaged hole バカ穴補正ビス | 3 |
| ÷ 9691 - 2055- 07 | Screw for damaged hole バカ穴補正ビス | 2 |
| 4 9691 - 2060 - 12 | Screw for damaged hole パカ穴補正ビス | 1 |

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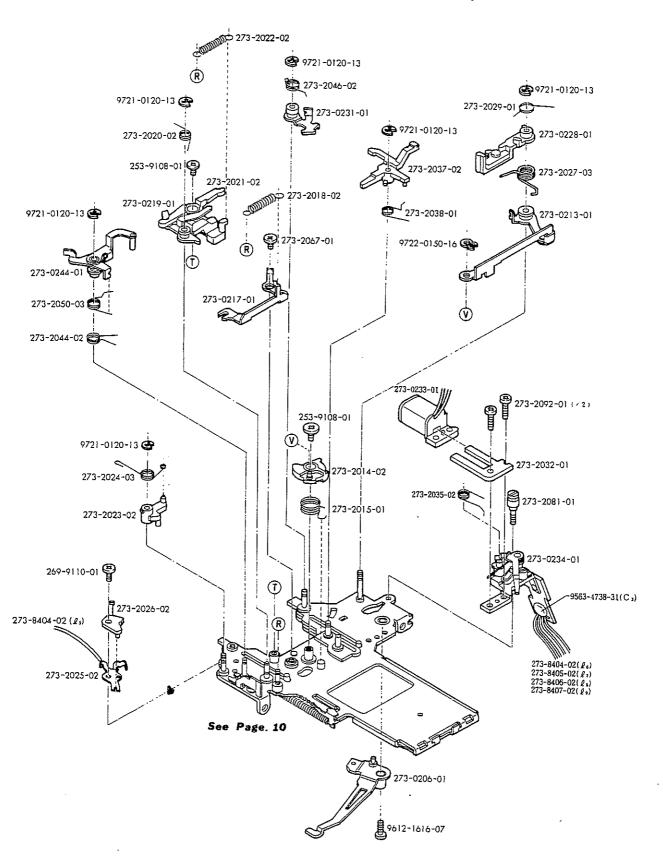
| Part No. | Part Name | Qty |
|--------------|--|-----|
| 部品番号 | 部品名称 | 員數 |
| 273-0211-01 | Magnetic release base plate set レリーズ台板セット | 1 |
| 273-0214-01 | Release magnet set レリーズマグネットセット | 1 |
| 273-0215-01 | Magnet mount base plate set MAG取付台板セット | 1 |
| 273-0251-01 | Release magnet operation lever set レリーズMAG 吸着片レバーセット | 1 |
| 273-0271-01 | Magnet release lever set レリーズ係止解除レバーセット | 1 |
| 273-0295-03 | Magnet coil set レリーズマグネットコイルセット | 1 |
| 2006-2026-01 | Magnet york レリーズMAGヨーク | 1 |
| 2006-2027-02 | Magnet pressure レリーズMAG押え板 | 1 |
| 2006-2028-01 | Release magnet レリーズMAG磁石 | 1 |
| 273-2118-03 | Magnet release lever spring レリーズ係止解除レバーSP | 1 |
| 273-2125-02 | Magnet coil cover レリーズ防爆カバー | 1 |
| 9612-1430-07 | Phillips type screw 十字次付なべ頭小ねじ | 2 |
| 9721-0120-13 | E-ring Eリング | 1 |
| 273-0230-01 | Release operation plate set レリーズ駆動板セット | 1 |
| | | |
| 273-2104-01 | Release operation lever spring レリーズ駆動レバーSP | 1 |
| 273-2105-02 | Mirror operation lever ミラー駆動レバー | 1 |
| 273-2106-01 | Mirror operation lever spring ミラー駆動レバーSP | 1 |
| 273-2116-01 | Operation plate stop lever spring 「駆動板係止レバーSP | 1 |
| 273-2154-01 | Mirror operation lever screw ミラー駆動レバー止めビス | 1 |
| 273-2165-01 | Roller レリーズ駆動板ローラー | 1 |
| 2006-9106-01 | Screw 特殊ビス | 3 |
| | | |
| 9721-0120-13 | E-ring E.リング | 1 |
| 9794-1640-40 | Washer 襟ワッシャー | 1 |



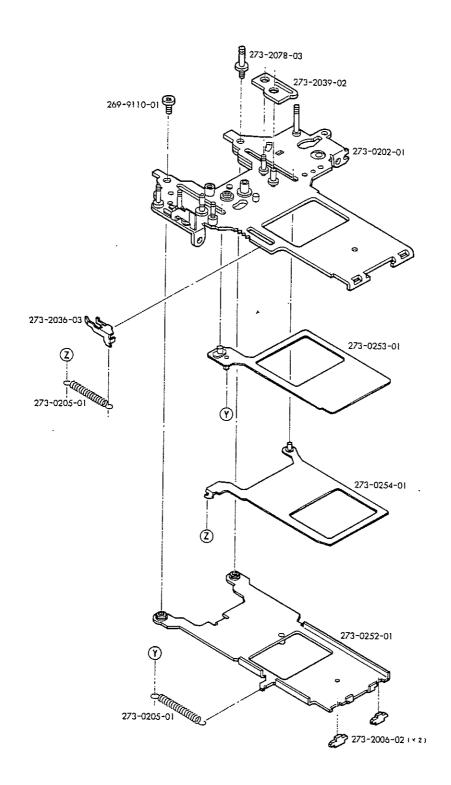
| | Part No. | Part Name | Qıy |
|---|----------------|---|-----|
| | 部品番号 | 部品名称 | 員數 |
| | 273-0207-01 | Shutter charge tramsmission lever set シャッターチャージ伝達レノーセット | 1 |
| | 273-0512-01 | Mirror holder set 可動ミラーホルダーセット | 1 |
| | 273-0515-01 | Mirror adjusting plate set 可動ミラー調整板セット | 1 |
| | 273-6026-01 | Mirror adjusting plate screw 可動ミラー調整板止ねじ | 1 |
| | 273-1013-03 | Tripod socket 三脚ねじ | 1 |
| ١ | 273-2052-02 | Shutter charge transmission lever axis シャッターチャージ伝達レゾー軸 | 1 |
| | 273-3017-03 | Perceive lever 触知レバー | 1 |
| | 273-3049-02 | Perceive lever spring 触知レバーSP | 1 |
| | 273-4205-02 | Battery case 電池ケース | 1 |
| | 273-4206-02 | Battery case mount base 電池ケース取付台 | 1 |
| | 273-4207-02 | Battery ① contact 電池ケース①接片 | 1 |
| | 273-4208-01 | Battery Contact 電池ケース 会接片 | 1 |
| | 273-6012-03 | Mirror return spring 可動ミラー戻しSP | 1 |
| | 273-6013-02 | Mirror holder axis 可動ミラーホルダー軸 | 1 |
| | 253-6017-01 | Washer 可動ミラー調整ワッシャー | 1 |
| | 273-6021-02 | Mirror stop lever 可動ミラー係止レバー | 1 |
| | 273-6022-02 | Mirror stop lever spring 可動ミラー係止レバーSP | 1 |
| | 273-6031-02 | Mirror stop lever pin 可動ミラー係止レバー止め鋲 | 1 |
| | 273-6042-03 | Mirror adjusting nut 可動ミラー調整用ナット | 1 |
| | 273-6804-03 | Mirror 可動ミラー | 1 |
| | 251-8804-01 | Perceive lever screw 触知レバー止めねじ | 1 |
| | 253-9012-02 | Mirror holder axis A 可動ミラーホルダー板軸A | 1 |
| | 9611-1635-01 | Phillips type screw 十字六付なべ頭小ねじ | 1 |
| | 9691-1735-07 | Phillips type tapping screw 十字六付タッピンねじ | 1 |
| | 9691-2045-07 | Phillips type tapping screw 十字穴付タッピンねじ | 6 |
| | 9691-2070-01 | Phillips type tapping screw 十字穴付タッピンねじ | 5 |
| | ÷ 273-9012-81 | Screw for damaged hole バカ六補正ビス | 1 |
| | ÷ 273-9114-81 | Screw for damaged hole バカ穴補正ビス | 1 |
| | ÷9691-1745-07 | Screw for damaged hale パカ穴補正ビス | 1 |
| | ÷9691-2050-07 | Screw for damaged hale バカ穴補正ビス | 1 |
| | ÷ 9691-2055-07 | Screw for damaged hole バカ穴補正ビス | 5 |

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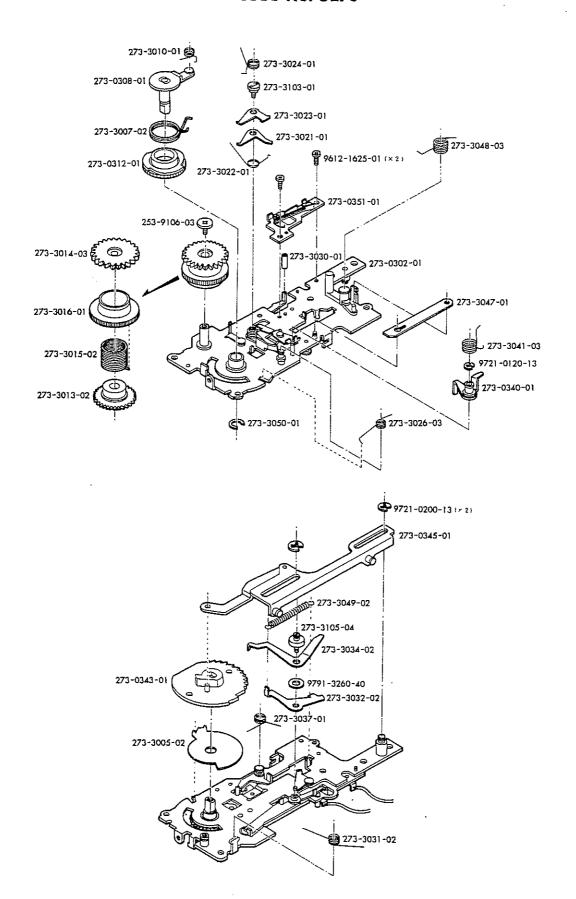
Assy. Part No. 273-0201-01



| Part No. | Part Name | Qty 質数 |
|----------------------------|---|-----------|
| 部品番号 | 部品名称 | PH |
| 273-0201-01 | Shutter block シャッターブロック | 1 |
| 273-0206-01 | Shutter charge lever set シャッターチャージレバーセット | 1 |
| 273-0213-01 | Control lever set 制御レパーセット | 1 |
| 273-0217-01 | Shutter release lever set シャッターレリーズレバーセット | 1 |
| 273-0219-01 | lst blade stop lever set 先羽根係止レバーセット | 1 |
| 273-0228-01 | Shutter magnet operation lever set 吸着片レバーセット | 1 |
| 273-0231-01 | 2 nd blade stop lever set 接羽根係止レバーセット | 1 |
| 273-0234-01 | Trigger SW base plate set トリガーSW台板セット | 1 |
| 273-0233-01 | Shutter magnet coil シャッターマグネットコイル | 1 |
| 273-2035-02 | Trigger SW FUS-SW | 1 |
| ₽ ₆ 273-8404-02 | Lead wire (Black #0.08/7 wires &=70 mm) リード級(別) | 1 |
| Ø ₇ 273-8405-02 | Lead wire (Orange \$0.08/7 wires ℓ =70 mm) リード線(位) | 1 |
| Q ₈ 273-8406-02 | Lead wire (Blue ≠0.08/7 wires ℓ =70 mm) リード級(丑) | 1 |
| ℓ ₉ 273-8407-02 | Lead wire (White #0.08/7 wires & -70 mm) リード線 (白) | 1 |
| C 3 9563-4738-31 | Condenser 0.047 µ F / 12 V | 1 |
| 273-0244-01 | Eye piece shutter operation lever set アイシャッター連動レバーセット | 1 |
| 273-2014-02 | Control cam 制御カム | 1 |
| 273-2015-01 | Control cam operation spring 制御力厶駅動SP | 1 |
| 273-2018-02 | Release return spring レリーズ戻しSP | 1 |
| 273-2020-02 | lst blade stop lever spring 先羽根係止レバー灰しSP | 1 |
| 273-2021-02 | 1st blade brake lever 先羽根プレーキレバー | 1 |
| 273-2022-02 | lst blade brake spring 先羽根プレーキSP | 1 |
| 273-2023-02 | Synchro lever シンクロレバー | 1 |
| 273-2024-03 | Synchro spring シンクロSP | 1 |
| 273-2025-02 | Synchro contact シンクロ接片 | 1 |
| 273-2026-02 | Synchro pressure シンクロ押え板 | 1 |
| 273-2027-03 | Adhesion plate over-charge spring 吸着片オーバーチャージSP | 1 |
| 273-2029-01 | Adhesion plate alienation spring 吸养片難反SP | 1 |
| 273-2032-01 | Shutter magnet core シャッターマグネット鉄芯 | 1 |
| 273-2037-02 | Mechanical shutter lever 機械シャッターレバー | 1 |
| 273-2038-01 | Mechanical shutter lever return spring - 機械シャッターレバー戻しSP | 1 |
| 273-2044-02 | Eyepiece shutter operation lever spring アイシャッター運動レバーSP | ì |
| 273-2046-02 | 2 nd blade stop lever spring 後羽根係北レハーSP | 1 |
| 273-2050-03 | Eye piece shutter over-charge spring アイシャッターオーバーチャージSP | 1 |
| 273-2067-01 | Control cam stop lever screw 制御カム係止レバー止めねじ | 1 |
| 273-2081-01 | Trigger SW base plate screw トリガーSW台板止めねし | 1 |
| 273- 2092-01 | Shutter magnet screw シャッターマグネット止めねじ | 2 |
| Qs 273-8404-02 | Lead wire (Black #0.08/7 wires 月=70mm) リード線(出) | 1 |
| 253-9108-01 | Screw 特殊ビス | 2 |
| 269-9110-01 | Screw 特殊ビス | 1 |
| 9612-1616-07 | Phillips type screw 上字次付なべ頭小ねじ | 1 |
| 9721-0120-13 | E-ring EU22 | 6 |
| 9722-0150-16 | G-ring Gリンク | 1 |



| Part Ng. | Part Name | Qiy |
|-------------|--------------------------------------|-----|
| 部品番号 | 部品名称 | 員数 |
| 273-0202-01 | Shutter base plate set シャッター台板セット | 1 |
| 273-0205-01 | Shutter blade spring 羽根SP | 2 |
| 273-0252-01 | Shutter cover set シャッターカバー板セット | 1 |
| 273-0253-01 | lst blade set 先羽根セット | 1 |
| 273-0254-01 | 2 nd blade set 後羽根セット | 1 |
| 273-2006-02 | Shutter blade stopper 羽根ストッパー | 2 |
| 273-2036-03 | Exposure adjustment plate 露出ムラ調整板 | 1 |
| 273-2039-02 | 2 nd blade brake 後羽根ブレーキ | 1 |
| 273-2078-03 | 2 nd blade stop lever axis 後羽根係止レバー軸 | 1 |
| 269-9110-01 | Screw 特殊ビス | 1 |

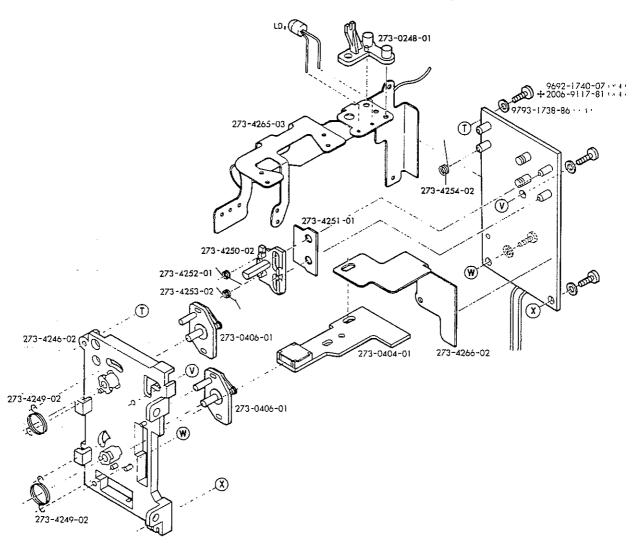


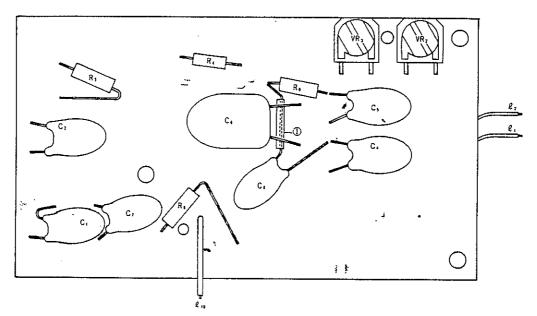
| Part No. | Part Name | Qty |
|------------------|--|-----|
| 部品番号 | 部品名称 | 員數 |
| 273-0302-01 | Winding base plate set 巻上台板セット | 1 |
| 273-0308-01 | Winding feed plate set 巻上送り板セット | 1 |
| 273-0312-01 | Winding gear-A set 参上ギヤーAセット | 1 |
| 273-0340-01 | Perceive release lever set 触知解除レバーセット | 1 |
| 273-0343-01 | Charge turning plate set チャージ回転板セット | 1 |
| 273-0345-01 | Charge plate set チャージ板セット | 1 |
| 273-0351-01 | S, base plate set S. 台板セット | 1 |
| | • | |
| 273-3005-02 | Reversing stop release plate 逆転防止解除板 | 1 |
| 273-3007-02 | Winding lever return spring 巻上レバー戻しSP | 1 |
| 273-3010-01 | Feed claw spring 送り爪SP | 1 |
| 273-3013-02 | Winding gear-B 巻上ギヤーB | 1 |
| 273-3014-03 | Winding gear 参取ギヤー | 1 |
| 273-3015-02 | Winding gear connection spring ギャー連結SP | 1 |
| 273-3016-01 | Winding stop gear 参止め叫 | 1 |
| 273-3021-01 | Winding stop claw-B 参止め爪B | 1 |
| 273-3022-01 | Winding stop claw-B spring 参止め爪B SP | 1 |
| 273-3023-01 | Winding stop claw-C 参止め爪C | 1 |
| 273-3024-01 | Winding stop claw-C spring 参此め爪C SP | 1 |
| 273-3026-03 | Reversing stop spring 逆転防止SP | 1 |
| 273-3030-01 | Winding stop lever isolation tube 巻北めレバー絶縁チューブ | 1 |
| 273-3031-02 | Winding stop lever spring - 巻止めレバーSP | 1 |
| 273-3032-02 | Winding set plate 参比セット補助板 | 1 |
| 273-3034-02 | Winding set lever 巻上セットレバー | 1 |
| 273-3037-01 | Winding set lever spring 巻上セットレバー係止爪SP | 1 |
| 273-3041-03 | Perceive release lever spring 独知解除レバーSP | 1 |
| 273-3047-01 | Cartridge sensor-B カートリッジセンサーB | 1 |
| 273-3048-03 | Cartridge sensor spring カートリッジセンサーSP | 1 |
| 273-3049-02 | Winding set plate spring 参比セット補助板SP | 1 |
| 273-3050-01 | Stopper ring 巻上レバー軸抜け止めリング | 1 |
| 273-3103-01 | Winding stop claw screw 参比め爪ビス | 1 |
| 273-3105-04 | Charge plate axis-A シャッターチャージ板軸A | 1 |
| 253-9106-03 | Winding gear screw 参収ギヤー止めねじ | 1 |
| 9612-1625-01 | Phillips type screw 十字次付なべ頭小ねじ | 2 |
| 9721-0120-13 | E-ring Eリング | 1 |
| 9721-0200-13 | E-ring Eリング | 2 |
| 9791 - 3260 - 40 | Washer 薄ワッシャー | 1 |

MINOLTA 110 ZOOM SLR MARK-II

CODE No. 0273

Assy. Part. No. 273-0401-01

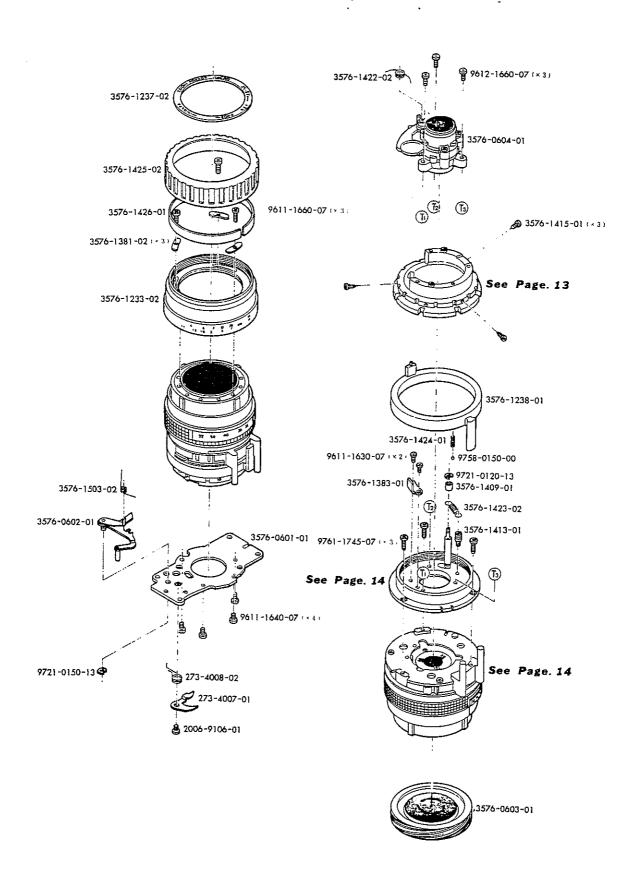




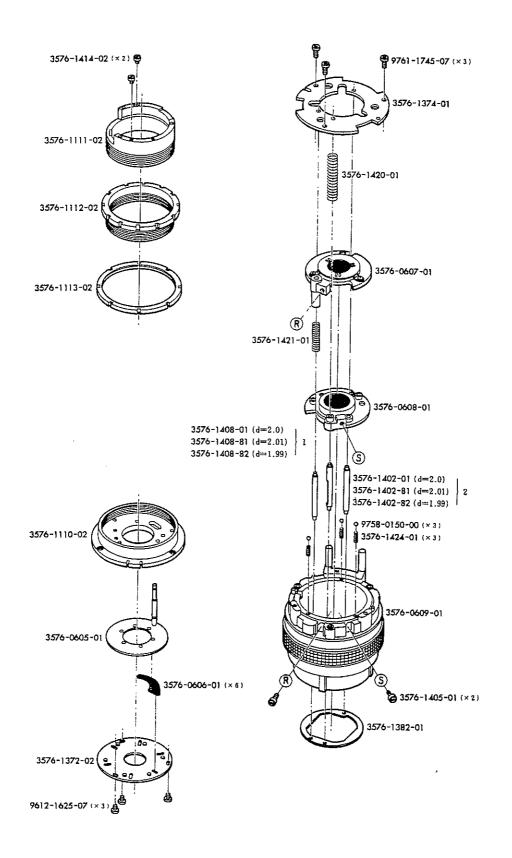
Assy. Part No. 273-0401-01 Assy. Part Name: Printed circuit plate set

| Symbol | Part No. | Com. | Part Name | Тур. | Qty. |
|---------------------------------|---------------------|--------------|--------------------|---|--------------------------------|
| LD, | 9353-2641-01 | | L.E.D. | TLR-102 | 1 |
| Ra | 9433-1036-34 | | | ⅓W 10KΩ | 1 |
| 1 | 9421-2036-32 | | | ½W 20KΩ | 11 |
| j | 9421-2236-32 | | | ⅓W 22KΩ | |
| | 9421-2436-32 | | <u> </u> | ⅓W 24KΩ | |
| | 9421-2736-32 | | | ½W 27KΩ | |
| | 9421-3036-32 | | | ½W 30KΩ | 7 |
| | 9421-3336-32 | | | ¼W 33KΩ | \exists \downarrow ι |
| R. { | 9421-3936-32 | | | ¼W 39KΩ | 7 (' |
| | 9421-4736-32 | | | ¼W 47KΩ | 7 |
| | 9421-5636-32 | | Resistor | ¼W 56KΩ | |
| | 9421-6836-32 | - | i | ¼W 68KΩ | |
| | 9421-1046-32 | | 1 | ⅓W 100KΩ | |
| | 9421-2046-32 | | | ⅓W 200KΩ | - |
| R ₆ | 9421-3046-32 | | 1 | ⅓ W 300KΩ | 1 |
| κ ₆ | 9421-3916-32 | | | ⅓W 390Ω | 1 |
| | 9421-8216-32 | | † | ⅓ W 820Ω | 71. |
| R _s { | 9421-1826-32 | - | | 1/6 W 1.8KΩ | - |
| ĺ | 9421-3326-32 | | | | |
| · · · | 9535-1555-36 | <u> </u> | | 1. 5#F/35V | 2 |
| C, C, C, C, | 9535-6845-36 | | | 0. 68#F/35V | 2 |
| C ₂ C ₈ | 9531-2265-61 | + | Condenser | 22μF/3. 15V | 1 |
| | 9531-4765-61 | | | 47μF/3. 15V | 1 |
| C, C, | 9531-1575-61 | | _ | 150µF/3. 15V | 1 |
| VR ₂ VR ₃ | 9472-1539-41 | | Variable resistor | | 2 |
| | 273-8401-02 | | Red | ≠0.08/7 wires ℓ = 50 mm | 1 |
| <u> </u> | 273-8402-02 | + | Lead wire Black | | 1 |
| | 273-8408-02 | | Pink | \$0.08/7 wires \$ = 40 mm | 1 |
| (1) | 273~4258-01 | - | Isolation tube | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 1 |
| 273-0404- | | | it plate set LED基框 | | |
| 273-0404- | | | it holder set 切換接路 | | 2 |
| 273-4246- | | | ite holder メイン基板: | | 1 |
| 273-4249- | | | | | 2 |
| 273-4250- | 411-11-H- | | ider レリーズ接片ホル・ | ∜ _ | 1 |
| 273-4250- | | | te 接片ホルダー敷板 | , | 1 |
| 273-4251- | | | contact 湖光SW接片 | | . 1 |
| 273-4252- | 2 1,0 20 111 0 21) | | contact 何元SW接片 | | 1 |
| 273- 4253- 273- 4254- | | | | <u>+</u> | 1 |
| 273-4254- | | | contact セルフSW接続 | | , |
| 2/3-4265- 273-4266- | 1 10.2.10.10 p. | | ircuit plate-A フレキ | | 1 |
| | | | ircuit plate-B フレキ | | 4 |
| 9692-1740 | | | ing screw 十字六付夕。 | /c/4t | A A |
| 9793-1738 | -86 Washer 🕅 | ソツンヤ | | | 4 |

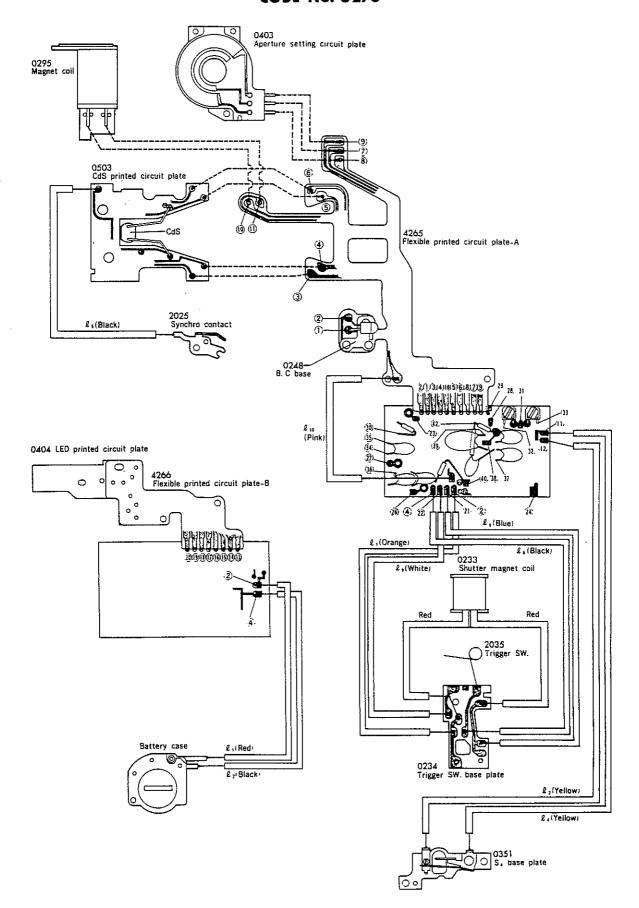
| Part No. | Part Name | Qty |
|----------------|--------------------------------|-----|
| 部品番号 | 部品名称 | 負數 |
| 273-0248-01 | B.C base set B.Cベースセット | 1 |
| ÷ 2006-9117-81 | Screw for damaged hole バカ穴補正ピス | 4 |



| - ' Part No. | Part Name | Qty |
|-----------------|--|-----|
| 部品番号 | 部 品 名 称 | 員數 |
| 3576-0601-01 | Zoom lens base plate set 鏡期台板セット | 1 |
| 3576-0602-01 | Diaphragm operation lever set 絞り達動レバーセット | 1 |
| 3576-0603-01 | Focus lens barrel set フォーカス玉枠セット | 1 |
| 3576-0604-01 | Master lens barrel set マスターレンズ枠セット | 1 |
| 3576-1233-02 | Distance scale ring 距離現 | 1 |
| 3576-1237-02 | Name ring 飾り環 | 1 |
| 3576-1238-01 | Macro lens ring マクロ中継リング | 1 |
| 3576-1381-02 | Distance scale ring set plate 距離環緒付板 | 3 |
| 3576-1383-01 | Helicoid key 直進キー | 1 |
| 3576-1409-01 | Diaphragm operation pin collar 絞り操作ピンカラー | 1 |
| 3576-1413-01 | Diaphragm spring hanger 絞りスプリング掛け | 1 |
| 3576-1415-01 | Back adjusting nut screw バック調整ピス | 3 |
| 3576-1422-02 | Macro lens spring マクロ用スプリング | 1 |
| 3576-1423-02 | Diaphragm spring 絞りスプリング | 1 |
| 3576-1424-01 | Click spring クリックスプリング | 1 |
| 3576-1425-02 | Rubber ring 距離環ゴムリング | 1 |
| 3576-1426-01 | Tape ゴムリング接着テープ | 1 |
| 3576-1503-02 | Diaphragm operation lever spring 絞り連動レバーSP | 1 |
| 273-4007-01 | Pre-set cam 紋りプリセットカム | 1 |
| 273-4008-02 | Pre-set spring 絞りブリセットSP | 1 |
| 2006-9106-01 | Screw 特殊ビス | 1 |
| 9611-1630-07 | Phillips type screw 十字穴付なべ頭小ねじ | 2 |
| 9611-1640-07 | Phillips type screw 十字穴付なべ頭小ねじ | 4 |
| 9611-1660-07 | Phillips type screw 十字穴付なべ頭小ねじ | 3 |
| 9612-1660-07 | Phillips type screw 十字穴付なべ頭小ねじ | 3 |
| 9761-1745-07 | Tap tight screw タップタイトねじ | 3 |
| 9721-0120-13 | E-ring Eリング | , 1 |
| 9721-0150-13 | E-ring Eリング | 1 |
| 9758-0150-00 | Steel boll スチールボール | 1 |



| art No. | Part Name | Qly |
|--------------|--|-----|
| 部品番号 | 部品 名称 | 員數 |
| 3576-0605-01 | Diophrogm operation plate set 一紋り操作板セット | 1 |
| 3576-0606-01 | Diaphragm blade set 絞り羽根セット | 6 |
| 3576-0607-01 | 2 nd moving barrel set 第2移動枠セット | 1 |
| 3576-0608-01 | l st moving barrel set 第1移動枠セット | 1 |
| 3576-0609-01 | Cam barrel set カム筒セット | 1 |
| 3576-1110-02 | Inner barrel-A 内简A | 1 |
| 3576-1111-02 | Inner barrel-B 内简B | 1 |
| 3576-1112-02 | Back adjusting nut-A バック調整用ナットA | 1 |
| 3576-1113-02 | Back adjusting nut-B バック調整用ナットB | 1 |
| 3576-1372-02 | Diaphragm blade pressure 絞り押え板 | 1 |
| 3576-1374-01 | Zoom lens base plate ズーム台板 | 1 |
| 3576-1382-01 | Front light shield plate 前遮光板 | 1 |
| 3576-1402-01 | Moving lens guide bar-A (d=2.0) 移動レンズガイドバーA(d=2.0) | 1 |
| 3576-1402-81 | Moving lens guide bar-A(d=2.01)移動レンズガイドバーA(d=2.01) | 2 |
| 3576-1402-82 | Moving lens guide bar-A(d=1.99)移動レンズガイドバーA(d=1.99) | J |
| 3576-1405-01 | Moving lens guide pin 移動レンズ操作ピン | 2 |
| 3576-1408-01 | Moving lens guide bar-B(d=2.0) 移動レンズガイドバーB(d=2.0) | } |
| 3576-1408-81 | Moving lens guide bar-B(d=2.01)移動レンズガイドバーB(d=2.01) | } 1 |
| 3576-1408-82 | Moving lens guide bar-B(d=1.99)移動レンズガイドバーB(d=1.99) | J |
| 3576-1414-02 | Set position pin 位置決めピン | 2 |
| 3576-1420-01 | list moving lens pressure spring 第1移動レンズ用圧者SP | 1 |
| 3576-1421-01 | 2 nd moving lens pressure spring 第2移動レンズ用圧者SP | 1 |
| 3576-1424-01 | Click spring クリックスプリング | 3 |
| 9612-1625-07 | Phillips type screw 十字次付なべ頭小ねじ | 3 |
| 9761-1745-07 | Tap tight screw タップタイトねじ | 3 |
| 9758-0150-00 | Steel ball スチールボール | 3 |



Lead wires list

| Symbol | Part No. | Color | Тур. | Qty. |
|-------------------------------|-------------|--------|-------------------------|------|
| <u></u> | 273-8401-02 | Red | ∮0.08/7 wires ℓ =50 mm | 1 |
| · · | 273-8402-02 | Black | \$0.08/7 wires ℓ -50 mm | 11 |
| £3 £4 | 273-8403-02 | Yellow | ≠0.08/7 wires ℓ -80 mm | 2 |
| ₽ ₅ ₽ ₆ | 273-8404-02 | Black | ≠0.08/7 wires ℓ -70 mm | 2 |
| ℓ 7 | 273-8405-02 | Orange | ≠0.08/7 wires ℓ -70 mm | 1 |
| ϱ_{*} | 273-8406-02 | Blue | \$0.08/7 wires ℓ 70 mm | 1 |
| l, | 273-8407-02 | White | \$0.08/7 wires 2 −70 mm | 1 |
| ℓ_{10} | 273-8408-02 | Pink | \$0.08/7 wires ℓ -40 mm | 1 |

Disassembly, Assembly and Adjustment

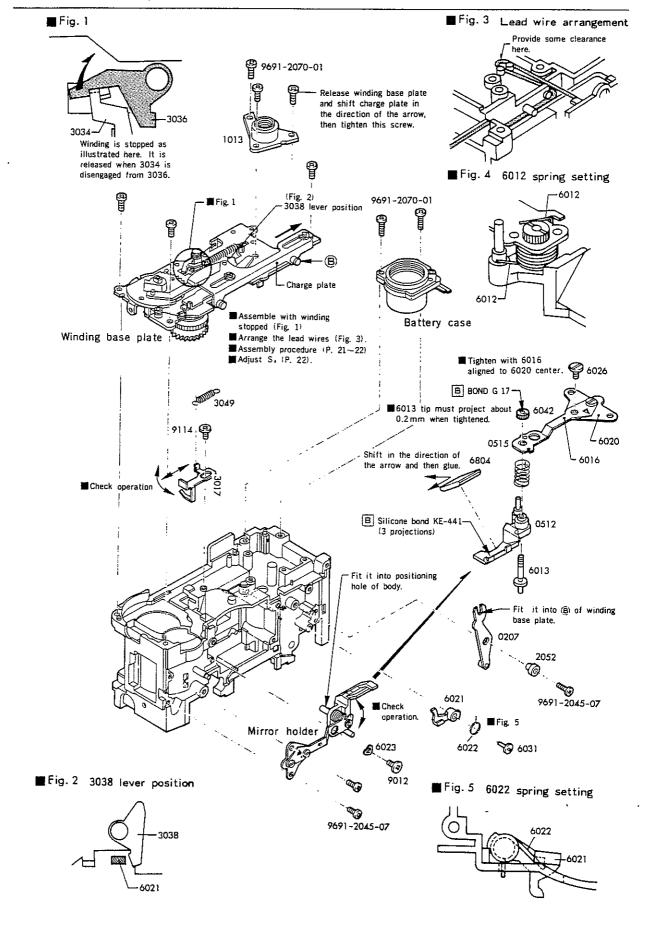
- The contents of this manual are mainly based upon the assembly and adjustment procedure of model 273.
- Reversely follow the pages when using this manual for the purpose of disassembly because the procedure is arranged for assembly.
- Description of symbol marks
 - G : Grease used and parts greased
 - **B**: Adhesives used and parts glued
 - T: Tool used and tool No.

| | | Pag | |
|----|--|---------|---------|
| ; | 1!Winding base plate and mirror holder | | |
| | Mirror stop timing adjustment | | 3 |
| | i4 Finder | 8 , | 7 33 |
| | Finder back adjustment ···· | | 10 |
| | Check and adjustment of LED vision | | 12 |
| | EE adjustment-1CdS resistance value mesurement (Selection of R ₁ and R ₂) | | 15 |
| | EE adjustment-3EE level adjustment (Adjustment of VR2, S3) | | 17 |
| ;5 | Adjustment of LEU indication Synchro check and, check of B.C voltage, etc. 6 Outer casing (Camera completed) | 19 | 20 |
| | Assembly and adjustment of each block | | |
| | ■ Assembly of winding base plate | | 44 |
| | Release base plate assembly | | 23 |
| | ■ Shutter assembly | 27 | 28 |
| | Aperture base plate and mode base plate assembly | | 30 |
| | Lens block assembly Top cover and front cover assembly | | - 34 |
| I | Measuring instruments and others | | . 35 |
| ı | Circuit diagram and wiring schematic diagram | 36 | 37 |
| • | Precautions | | 1 |
| | Since a lot of resin parts are used for 273, take the following precautions for their ass | emb | ıy |

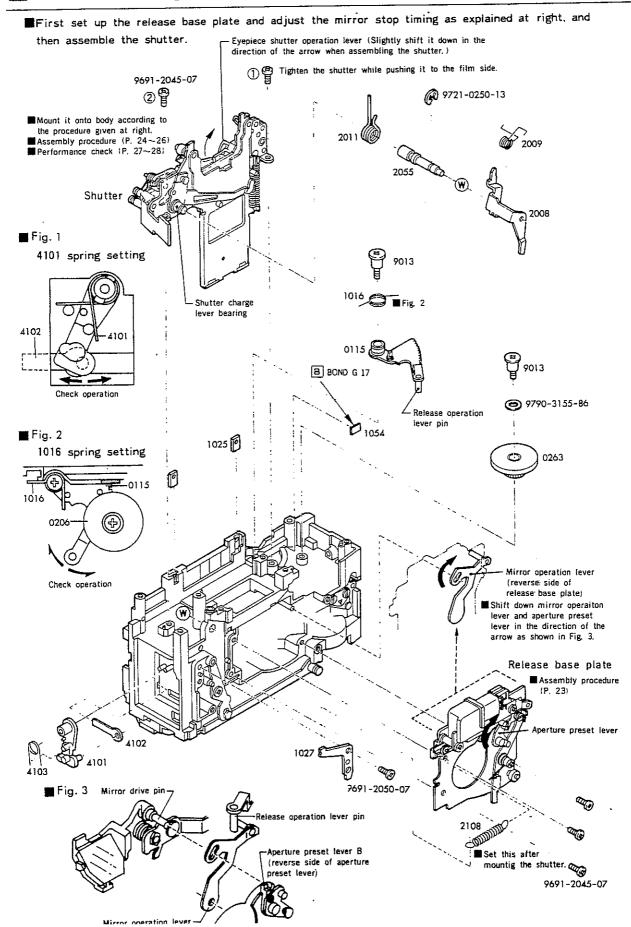
- and adjustment.

 1. When cleaning, use Flonsolve or alcohol. Do not use thinner, Ketone, ether or the like.
- 2. Use the specified set-screw for fitting each part. Each set-screw should be correctly tightened.
- 3. When screw threads are defective, use the specified screws. (Refer to Parts List.)

1 Winding base plate and mirror holder

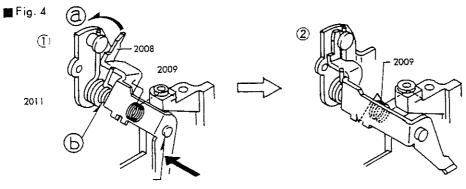


2 Release base plate and shutter



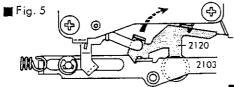
Shutter block assembly procedure

- 1. Set 2009 and 2011 onto 2055, then pass it through the hole of body from shutter side.
- 2. Shifting down eyepiece shutter operation lever slightly mount the shutter block onto the body, then tighten the setscrews ① and ② in order as shown at left.
- 3. Shift down 2055 to the shutter side and fit 2055 onto shutter charge lever bearing, then secure it with 9721-0250-13.
- 4. Attach 2008 until the tip of 2055 projects slightly and then set 2011 as shown in Fig. 4 (1). Push 2008 while turning it in the direction of arrow a until it clicks (to fit in groove b of 2055) as shown in Fig. 4 (2).
- 5. Link 2009 to 2008 and body.



■Release base plate and shutter operation check

- 1. Attach the film advance lever and turn it.
- 2. Turn the release operation stop lever $(2120)^{\circ}$ of release base plate unit in the direction of the arrow shown below: when it is disengaged from release operation plate $(2103)^{\circ}$, both mirror and shutter should operate.

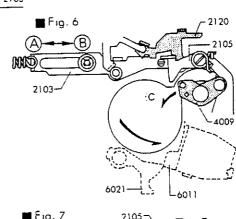


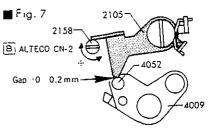
Mirror stop timing adjustment

- Disengage release operation stop lever (2120, from release operation plate (2103), then shift 2103 in the direction of A in Fig. 6.
- Next, turn aperture preset lever (4009) in the direction of © as far as it goes lightly, and then return 2103 a little in the direction of ® as shown in Fig. 7.
 - In this case, adjust eccentric pin (2158), so that the gap between pin (4052) and mirror operation lever (2105) is 0 to 0.2 mm (not in contact).
- After the above procedure, sparingly apply ALTECO CN-2 to 2158.

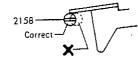
■Check after adjustment

- 1. Bring the winding base plate into stop condition. (Fig. 1, P, 1)
- 2. Return 2103 in the direction of (B) to engage it with 2120. When it is disengaged and operated in the direction of (A), mirror holder (6011) should be stopped by mirror stop lever (6021).



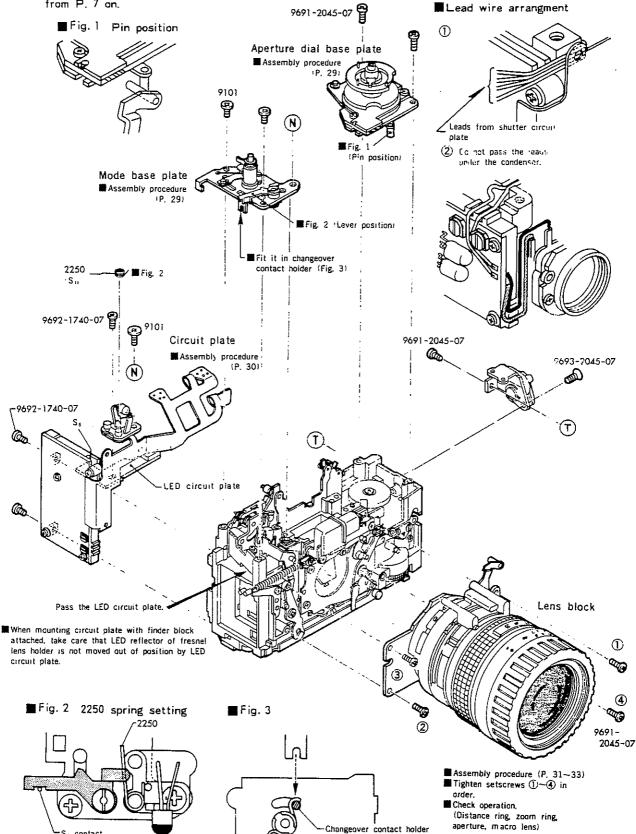


This should be adjusted on the left side of eccentric position.



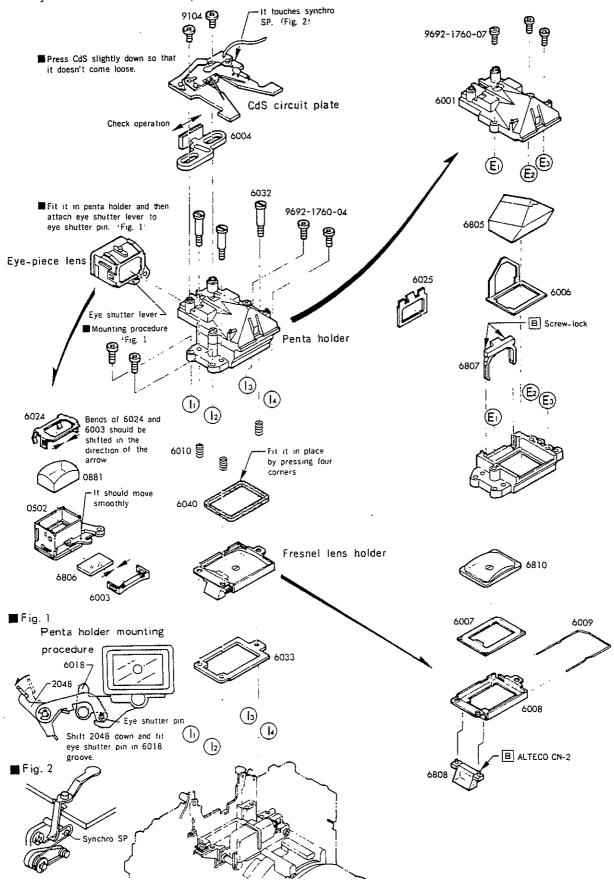
3 Lens block, aperture dial base plate, circuit plate and mode base plate

- #Assemble the parts as mentioned above in order.
- After completion of assembly on the next page, solder the leads according to P. 5, check the operation of each part, and then perform the necessary adjustments according to the procedure from P. 7 on.

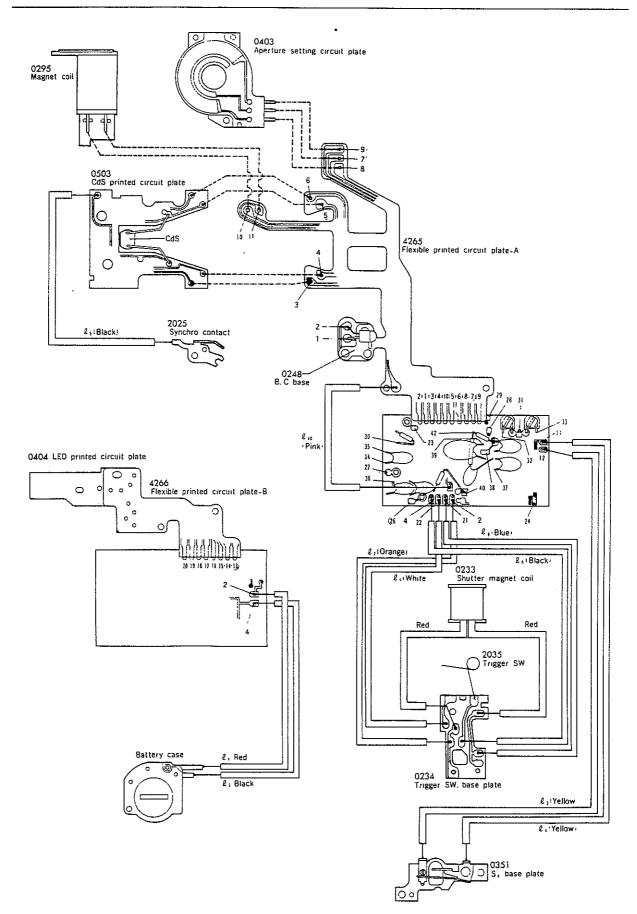


4 Finder

■The finder magnification of this camera is great, therefore it should be carefully cleaned since any dust is liable to be conspicuous.



Soldering

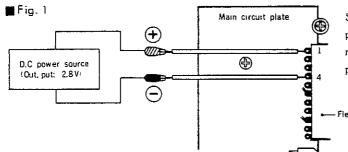


Power supply method during adjustment etc.

[] Power supply method

- Use a constant voltage D.C power supply for the adjustment of electrical parts.
- Solder the two lead wires to main circuit plate as illustrated and then connect them to the power source. Connecting them directly to the battery holder with clips is possible but in this case, workability is poor and connection to the negative side is impossible when the bottom cover is mounted.

(Note) Temporarily secure the bottom cover so as not to lose the spring of the winding base plate during adjustment.

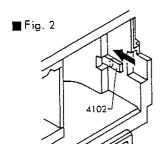


Solder the leads to the 1st and 4th patterns from the connection of the main circuit plate and flexible circuit plate A as shown here.

- Flexible circuit plate A

2 ASA 80 setting method

• When this camera is not loaded with a cartridge, the circuit is set to ASA 250. Therefore, to shift it to ASA 80, use a test cartridge (ASA 80) or follow the method as shown below.

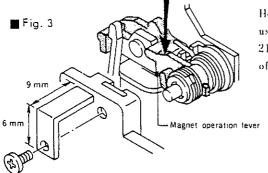


Push in the ASA detection lever (4102) and secure it with tape.

(This method is used because it is impossible to use cartridge during measurement of EE level.)

3 Shutter releasing procedure

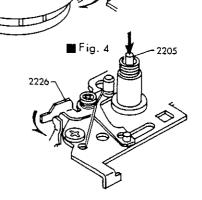
Mount the top cover, mode dial and release button, and then release the shutter in mode B.
 In addition, the following method is available.



Hold the magnet operation lever with the hand or by using a simple L-shaped jig as shown below, then push 2120 (release operation stop lever) in the direction of the arrow, so that the shutter is kept released.

4 Light measuring switch (S1) ON

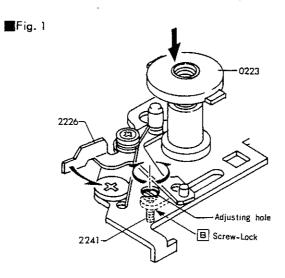
When the top cover, mode dial and release button are not attached, shift the mode changeover lever (2226) in the direction of the arrow and push the release axis (2205), then S₁ turns ON; another push causes S₂ (release switch) to turn ON. The mode is changed over A-X-B depending on the position of 2226.



Checking release stroke

■Check and adjustment procedure

1. Put a battery into the camera or connect power source to it, and fit the release button (0223) as in Fig. 1, then check as described in steps 2 and 3, below.



- 2. Pressing the release button under release lock condition should not cause the LED in the finder to light up. (S₁ should not turn ON.)
 - If LED lights up (S₁ turns ON), insert a screwdriver into the adjusting hole of release base plate and slightly turn the release adjusting screw (2241) counterclockwise.
 - 3. Shift the mode change lever (2226) in the direction of the arrow and slowly depress the release button; it should then be possible to depress the release button at least 0.3 mm, even after shutter release.
 - If the marginal stroke after shutter release is less than 0.3 mm, turn 2241 slgihtly to the right.
 - 4. After turning 2241, be sure to check as in steps 2 and 3 and apply Screw-Lock to 2241.

Focus adjustment

If part replacement, disassembly or repair has been performed on the lens block and might affect the focus position, carry out the focus adjustment according to the procedure described on P. 33.

■Measuring instruments: Auto collimator (120 mm or 200 mm)

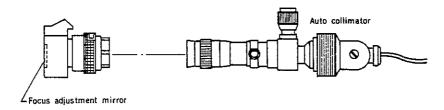
: Focus adjustment mirror (251-3357-76)

: Focus adjustment wrench (273-1112-75)

Focus check and standard

1. Release the shutter and aperture, and set the distance scale ring to infinity (∞) as illustrated below.

■Fig. 1



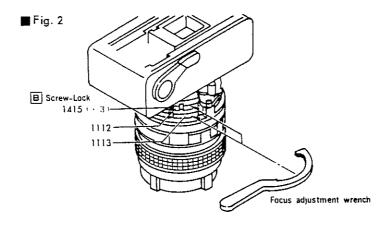
2. Check that the reading on the auto collimator is within the allowable range.

| 51 | | | | |
|----|--|--|--|--|
| | | | | |
| | | | | |

| | | Auto co | llimator | | | |
|-----------|-------------------|-----------------|-------------------|-----------------|------------|--|
| Zoom ring | | 200 mm | | D | | |
| setting | Standard value | Allowable range | Standard value | Allowable range | Remarks | |
| 67 mm | +4.3 scale | +2.6~+6.0 scale | +1.7 scale | +1.0~+2.3 scale | Adjust | |
| 25 mm | | 0∼+56 scale | | 0-+21.6 scale | Check only | |

■Adjusting procedure

- 1. Loosen the focus adjusting nut B (1113), and screw (1415 \times 3).
- 2. Set the zoom ring to 67 mm and auto collimator to the reference value, then rotate the focus adjusting nut A (1112) to perform the adjustment.



- 3. Check that the wide side (25 mm) is within the allowable range, then tighten the 3 screws (1415) evenly and 1113 as well.
- 4. Check that the focus is not deflected on the TELE side (67 mm) and wide side (25 mm), and then apply Screw-Lock to 1415.

Finder back adjustment

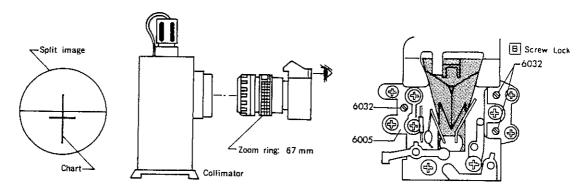
If the mirror holder is removed from the body or disassembled or repaired, check it according to the procedure given on P. 10.

■Measuring instrument: Collimator (Model RC 1000-I, II, III)

■Adjusting procedure

1. Set the camera so that the chart of the collimator is viewed as shown below. Then turn the three VB adjusting screws (6032) so that the vertical lines of the chart coincide.

■Fig. 1



2. Next, check for deflection at top, bottom, right and left positions of the finder view field, and if there is any, adjust it by turning 6032, taking care not to affect the coincidence of the vertical lines of the chart image. After adjustment, apply Screw-Lock to the head of 6032.

Checking finder image

This check must be performed whenever the mirror holder is removed from the body or disassembled or repaired. After adjustment, check the finder back (re-adjustment).

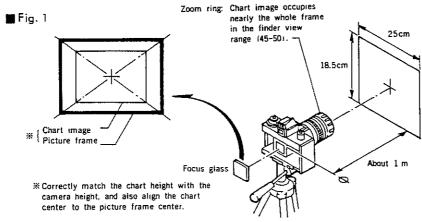
■Checking procedure

Fix the camera with it facing a paper object (or chart). Then check that the visible range in the finder is completely displayed on the screen (check it on the focus glass) and that the image is not inclined.

If the finder image is inclined or the finder center is deflected from the screen center, make the following adjustment.

Adjusting procedure

1. Make a chart of 18.5cm × 25cm, and set it as shown below.

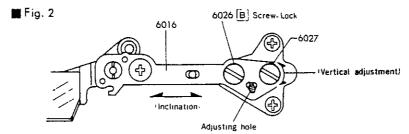


2. Looking into the finder

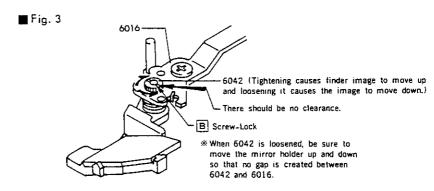
• Adjustment of inclination

Loosen the mirror adjusting plate screw (6026) and insert a small screwdriver into the triangular hole of the mirror adjusting plate (6016) to turn it to the right or left.

Adjustment of vertical deflection.....
 Slightly loosen 6026 and adjust by turning eccentric pin (6027).



• If vertical deflection cannot be adjusted by eccentric pin (6027), remove the lens base plate and release base plate, then turn the mirror adjusting nut (6042) to shift the front and back the position of the mirror.

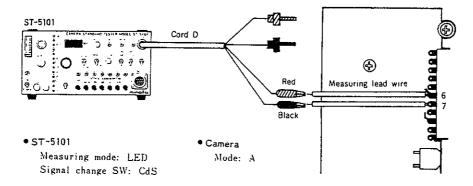


Check and adjustment of LED vision

■Measuring instrument: Camera standerd tester (Model ST-5101)

■Checking procedure

- 1. Solder the two lead wires for measurement as illustrated and connect them to the measuring instrument.
 - Fig. 1

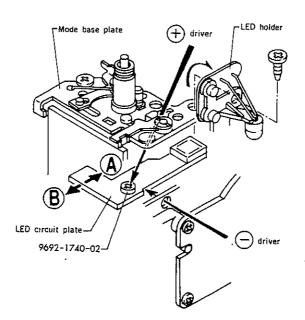


2. Turn on the light measuring switch (S_1) and rotate the aperture dial to a position where the LEDs in the finder continuously light up from \triangle (high luminance alarm) to ∇ (low luminance alarm). Then check that the indications can be clearly seen in the range from \triangle to ∇ .

■Adjusting procedure

- I. Remove the setscrew of LED holder to detach the holder from the mode base plate.
- 2. Insert a screwdriver into the hole of mode base plate as illustrated below and loosen the setscrew (9692-1740-02). (With the screw loosened, the LED base plate can be shifted in the direction of the arrow (A.)
- 3. Insert a small screwdriver into the round hole of the body located at the back of the lens base plate, until it touches the LED base plate. Then gradually shift the LED base plate in the direction of the arrow (B).

Fig. 2



Aperture diameter adjustment

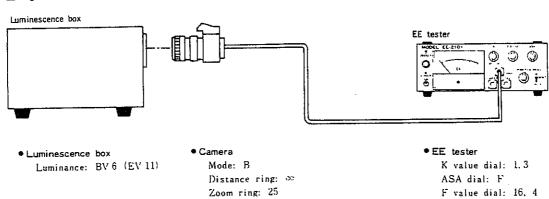
■Measuring instruments: Luminescence box (Model L-2101, L-222, L-223)

: EE tester (Model EE-2101, EE-2111)

■Measuring procedure

1. Set the camera and measuring instrument as illustrated below.





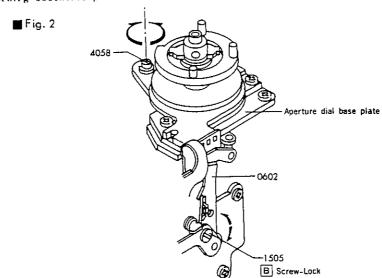
2. With the shutter released, shift the measure key switch of EE tester from RESET position to CAL.F. position, then read the indication. (Check F 16 and F 4).

| ſc | tandard | 1 |
|----|---------|---|
| ŲΒ | tanoaro | 3 |

| | Allowable range |
|----------|------------------------|
| Aperture | (EE tester indication) |
| F 16 | 0 '02 EV |
| F 4 | 0 · 0.15 E V |

■Adjusting procedure

- 1. Set the aperture to F 16 and turn the cam lever adjuster (4058) of aperture dial base plate section so that the EE tester indicates $0^{-0.2}_{-0.0}$ EV as shown in Fig. 2.
 - If the aperture block is disassembled or the diaphragm operation lever (0602) is replaced, and only when necessary adjustment cannot be made with adjusting pin (4058), adjust it by turning eccentric pin (1505).



2. With the aperture set at F4, check that the EE tester indication is $0^{+0.15}_{-0.25} EV$.

EE adjustment-1...CdS resistance value mesurement

(Selection of R_1 and R_2)

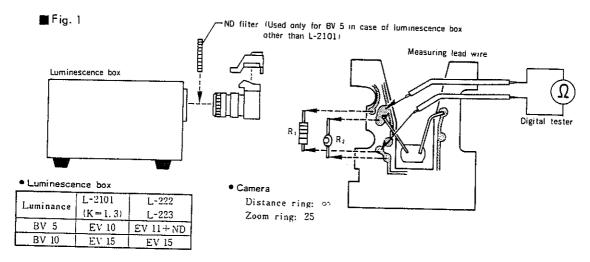
■Measuring instruments: Luminescence box (Model L-2101, L-222, L-223)

: Digital tester

: ND filter (50%)...It is unnecessary of the luminescence box is L-2101.

■Measuring procedure

1. Remove resistors R_1 and R_2 from CdS circuit plate, and solder the two lead wires for measurement and temporarily put on the top cover as illustrated below.



2. Measurement of RBV 5

Set the luminescence box to BV 5 and measure the resistance value with a digital tester. (Replace CdS if the measured value is not within 70 to $300\,\mathrm{K}\Omega_\odot$)

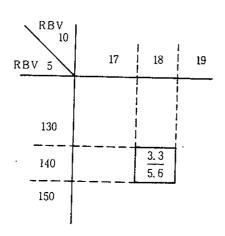
3. Measurement of RBV 10

Set the luminescence box to BV 10 and measure the resistance value. (Replace CdS if the measured value is not within 10 to $30\,K\Omega_\odot$)

■Determination of R₁ and R₂

Determine the R_1 and R_2 from the measured values of RBV 5 and RBV 10 (or approximate) using the tables on the next page, and then attach them to the CdS circuit plate.

(Example) When measured value RBV 5=143 K Ω and RBV 10=17.8 K Ω R₁=3.3 (M Ω) and R₂=5.6 (K Ω) from the intersection on the ordinate and abscissa for the approximate value of RBV 5 (140 K Ω) and that of RBV 10 (18 K Ω) in the numerical table.



■ Table of CdS resistance values

Frame top R_1 $(M\Omega\,)\cdots\cdots R_1$ is not used if not given. Frame bottom R_2 $(K\Omega\,)$

| \ | (KU) | | | | | | 10 | | 10 | 10 | 00 | 0.7 | 00 | ດລ | 74 | 25 | 26 | 27 | 28 | 29 | 30 |
|------------|-------------------|------------|-------------------|-------------------|--------------|------------------|-------------------|-------------------|--------------|--------------|--------------|-----------------|------------------|------------|---------------------------------------|--------------|------------------|--------------|---------------|--------------|--------------|
| RBV 5 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | ۷3 | 24 | 20 | 20 | 21 | | 23 | 30 |
| 60 (ΚΩ) | - 0 | | | | | | | | | | | | | | | | | | | | |
| 70 | 2, 2 2, 2 | | | } } | · | | : } | | | | | | | | | | , | | | | |
| 80 | 1.8 | 2.2 3.3 | | | | | : : : | | | | | | | | | | | | | | ! ! |
| 90 | | 7 | 2. 2 3. 3 | 3.3 | | : | | | , | | | | | | : : | : : : | | | ! ! | ; ; ; | } |
| 100 | $\frac{1.8}{6.8}$ | 1.8 5.6 | $\frac{1.8}{4.7}$ | $\frac{2.2}{4.7}$ | 2. 7 3. 3 | | | <u>.</u> | | | | , | | _ | _ | | | | | ļ | |
| 110 | | 1.8 6.8 | 1.8 5.6 | 2, 2 5, 6 | 2. 4. | 7 | 3.9 | | | - | | | | 2. | .2 | <u>.</u> | : : • | | | ļ | |
| 120 | | 1.8 | | 1.8 6.8 | 2.2 5.6 | 2.7 5.6 | $\frac{3.3}{4.7}$ | $\frac{3.9}{4.7}$ | 3.3 | | | <u>.</u> | : : | | | | | | <u>.</u> | , | <u>.</u> |
| 130 | | | | | | . 2 | 2.7 5. fi | 3.3 5.6 | 3.9 | 4.7 3.3 | 3, 3 | | | <u> </u> | | <u>.</u> | <u>.</u> | <u>.</u> | | | : : : |
| 140 | | | 1.8 | | | . 2 | 2 6 | . 7 | 3. 3 5. 6 | 3. 9 5. 6 | 4.7 | 3 | . 3 | | | <u>.</u> | | <u>.</u> | | : ! | : : |
| 150 | | 1. 8 | | | | 2. 2 | 2.2 8.2 | 2.7 8.2 | 2, 7 6. 8 | 3.3 6.8 | 3. 9 5. 6 | 4.7 5.6 | 5. 6 4. 7 | 3. 3 | | | | : : | <u>:</u> | | : |
| 160 | | 1.8 | | <u> </u> | | 10 | | | 2.7 8.2 | 3.3 8.2 | 3.3 6.8 | 3. 9 6. 8 | 4. 7 5. 6 | 5.6 4.7 | 4.7 | 3, 3 | | | | : | |
| 170 | | : | | |] | | | | 2. 7 | | | <u>.3</u> .2 | 3. 9 6. 8 | 4.7 6.8 | 5.6 5.6 | 6.8 | 4.7 | 3.3 | | | : : |
| 180 | | ĵ ! | | | | $\frac{2.2}{12}$ | | | | | | 3, 3 | | 3, 9 | 6.8 | 5 | . 6 . 6 | 4.7 | 3 | .3 | |
| 190 | †····· | | | | | | | | | L | | 10 | | 8.2 | | 4.7 8.2 | 5, 6 6, 8 | 5, 6 5, 6 | 6.8 5.6 | 4.7 | 3,3 |
| 200 | ļ | : | | | | : | | : | | 2. 7 | | | | 3.3 | 3.9 | 3. 9 8. 2 | 4.7 8.2 | | i, fi i, 8 | 6, 8 5, 6 | 5.6 |
| 210 | | | <u></u> | <u></u> | | : | : | : | | 2. 7 12 | | | | | | 3. 9 | $\frac{4.7}{10}$ | 4.7 8.2 | 5.6 8.2 | 5. 6 6. 8 | 6.8 6.8 |
| 220 | ļ | | | | : | : | : | | | | | | | | | | 3.9 | | 4.7 | | 5. 6 3. 2 |
| 230 | | | | | : | | | ···· ····· | : | ÷ | : | 1 . | $\frac{3.3}{12}$ | | | | | | fo | | 5.6 10 |
| 240 | | | | | : | : | | | : | | | | | | | | 3. 9 | , | | | 4. 7 |
| 250 | | | | | * | : | | : | | | | | | | | | 3. 9 | | | | - |
| 260 | | , ,,,,,, | | ./ | | : | : | | | | | | : | : | ; | : | | | | | 4. 7 12 |
| 270 | | | | | | , | | : | | | : | | | | · · · · · · · · · · · · · · · · · · · | • | | | | | |
| 280 | . | | | | | | | : | , | | | | ; | : | .÷ : : | | - | | | L |] |
| 290 | · | | | | | | | · · · · | | | ; ; | | | | - | | : | | : | · | |
| 300 | + | | | | | | | : | | | | | : | · | - | | | | ······· | | - |

■ EE adjustment-2···180 mV adjustment (Selection of R₄)

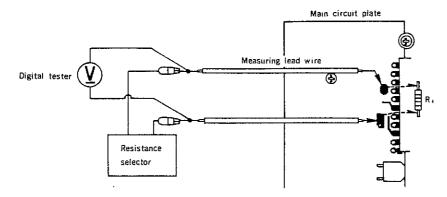
Measuring instruments: Digital tester

Resistance selector (Model RS-III, RS-II)

Adjusting procedure

1. Remove R_4 and solder the two leads for measurement and connect the measuring instrument as illustrated.

Fig. 1



- 2. Next, turn ON the light measuring switch (S_1) , and set the resistance selector dial so that the voltage indication of digital tester is as close to $180\,\mathrm{mV}$ as possible.
- 3. Select R_* from the following table whose resistance is nearest to the value obtained by the resistance selector. Solder the resistor to the main circuit plate. Then check that the voltage at both ends of R_* (measured with resistance selector removed) is $180 \pm 3 \,\mathrm{mV}$.
 - If the voltage is not within $180\pm3\,\mathrm{mV}$, change the magnitude of R_4 using the table below, and again check it.

 $\label{eq:Voltage} Voltage \ in resistance \ of \ R_4.$ $. \ Voltage \ decreases \\ \cdots \\ with \ decrease \ in \ resistance \ of \ R_4.$

(Kinds of R.)

| Resistance (KΩ) | Part No. | Resistance (KΩ) | Part No. |
|--------------------|--------------|--------------------|--------------|
| 20 | 9421-2036-32 | 39 | 9421-3936-32 |
| 22 | 9421-2236-32 | 47 | 9421-4736-32 |
| 24 | 9421-2436-32 | 56 | 9421-5636-32 |
| 27 | 9421-2736-32 | 68 | 9421-6836-32 |
| 30 | 9421-3036-32 | 100 | 9421-1046-32 |
| 33 | 9421-3336-32 | 200 | 9421-2046-32 |

EE adjustment-3···EE level adjustment (Adjustment of VR₂, S₃)

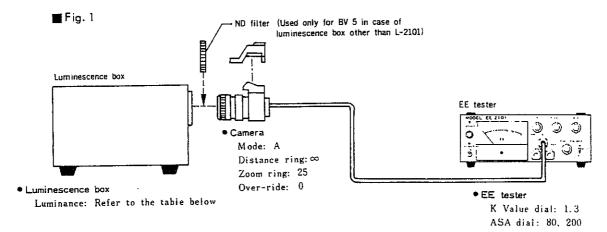
■Measuring instruments: Luminescence box (Model L-2101, L-222, L-223)

: EE tester (Model EE-2101, EE-2111)

: ND filter (50%)...It is unnecessary if the luminescence box is L-2101.

Adjusting procedure

1. Temporarily mount the top cover, mode dial, release button, and aperture dial onto the camera, and then set the measuring instrument as shown below.

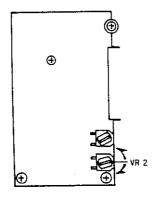


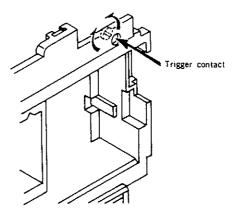
2. Adjust and check in accordance with the following table.

| | Lumines cence box | L-2101 (K=1.3) | (K=1.3) EE tester Camera | | amera | Standard (EE tester | Adjusting part | |
|------|-------------------|----------------|--------------------------|-----|----------|------------------------|------------------------|--|
| Step | Lumina- nce | L-222, L-223 | (ASA) | ASA | Aperture | indication) | Aujusting part | |
| , | BV 5 | EV 10 | 80 | 80 | F3.5 | +0.3±0.1EV | VR ₂ Fig. 2 | |
| 1 | DYJ | EV 11+ND | 00 | 00 | 1 3.3 | 10.03.0.101 | V 112 116. C | |
| | DV 0 | EV 14 | 80 | 80 | F3.5 | +0.3±0.5EV | S ₃ Fig3 | |
| 2 | BV 9 | EV 14 | 80 | 00 | 13.3 | 7 0.5 2 0.5 5 | (Trigger contact) | |
| | D.1. 5 | EV 10 | 200 | 250 | F3.5 | 0 ± 0.3EV | F | |
| 3 | BV 5 | EV 11+ND | 200 | 200 | r 3.5 | 0.70.204 | Check only | |
| , | BV 9 | EV 14 | 80 | 80 | F 8 | +0.3±0.8EV | Check onty | |
| 4 | DA A | EV 14 | 00 | 30 | ' ' | 0.02 0.0121 | | |

Fig. 2 Adjustment of VR 2

Fig. 3 Adjustment of S, (trigger contact)





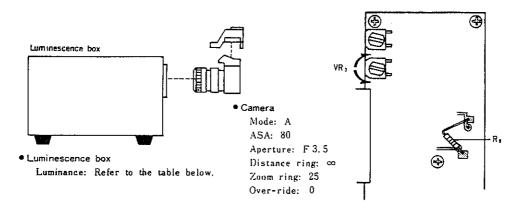
Adjsutment of LED indication

■Measuring instrument: Luminescence box (Model L-2101, L-222, L-223)

Adjusting procedure

1. Temporarily mount the top cover onto the camera.

Fig. 1



(Luminance & Standard)

| Luminescence | L-2101 (K = 1.3) | Allowable range (±1EV) | | | | | | | | |
|--------------|------------------|------------------------|-----|--|----------|------------|----------|--|--|--|
| Luminance | L-222, L-223 | EV | + 1 | +0.5 | 0 | -0.5 | - 1 | | | |
| | | 250 | ☆ | ৵ | • | • | • | | | |
| BV 6 | EV 11 | 125 | • | ☆ | ₩ | ₩ | • | | | |
| | | 60-4 | ı | • | • | <u>-0-</u> | :0: | | | |
| | | | ** | \times_{\time | A | A | A | | | |
| BV 9 | EV 14 | 1000 | • | | ₩ | ☆ | • | | | |
| | | 500 | • | • | • | ☆ | ☆ | | | |

Cautions: Only lights up at BV 6...With over-ride set at -1, check that LED for 125 lights up

Only A lights up at BV 9...With over-ride set at +1, check that LED for 1000 lights up.

- 2. Set the luminescence box to BV 6, then adjust VR 3 (shown above) so that only LED for 125 lights up with light measuring switch (S_1) turned ON.
- 3. Next, with the luminescence box set at BV9, check that the specified LED lights up. If an LED other than specified lifted lights up, perform the deflection adjustment given below or adjust by turning VR3 so that both BV6 and BV9 satisfy the specification.
 - To check for error on the low speed side is difficult, therefore it is desirable that the deflection for BV 6 and BV 9 be as close to 0 as possible.
- 4. Deflection adjustment (after adjustment of BV 6)
 - \bullet LED which lights up at BV 9 is deflected to a speed higher than the specification \cdots Change R_8 to smaller resistance.
 - LED which lights up at BV 9 is deflected to a speed lower than the specification
 Change R₈ to larger resistance.
 - After changing R₈, perform the adjustment from the beginning.

Synchro check

■Measuring instruments: Strobo retarder (Model III)

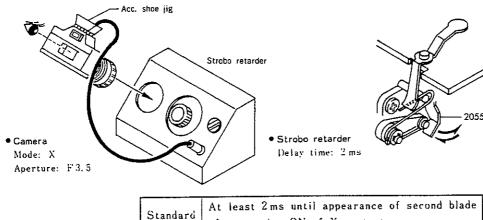
: Strobo (With synchro auto control circuit... Minolta)

1 Check of X time lag

Mount the top cover and connect the accessory shoe and strobo retarder by using the acc shoe jig. Then, release the shutter several times to check that the shutter is fully open by observing from the film position.

Fig. 1

Fig. 2



Standard after turning ON of X contact.

Adjusting procedure

If the second blade is within the screen when the strobo retarder lights up, bend the synchro contact (2025) and adjust the timing of X contact ON as shown in Fig. 2.

2Check of auto X circuit

Set the strobo with synchro auto control circuit onto the accessory shoe, and then check the

- Set the camera mode to a position other than L., and the light measuring switch (S1) to ON, and then observe the alteration of I.ED indication. The normal auto speed should be indicated (not at X, B) until completion of strobo charging, and the indication should go out on completion of charge and the LED for 125 should blink.
- Whatever shutter speed is indicated before completion of charge, it should synchronize with shutter release after completion of charge.

Check of B.C voltage, etc.

■Measuring instruments: Constant voltage D.C power supply

: Digital tester

Checking procedure

Change the power supply voltage according to the following items, and check that the specification is satisfied.

IB. C voltage

| Standard (V) | Allowable range |
|--------------|----------------------------------|
| 2.0 -0.20 | B.C should not light up at 1.8V. |
| 2.0±0.20 | B. C should light up at 2.2V. |

2 Voltage for LED in finder to turn OFF

Standard LED in finder should light up when B.C checker is on.

3Release lock voltage

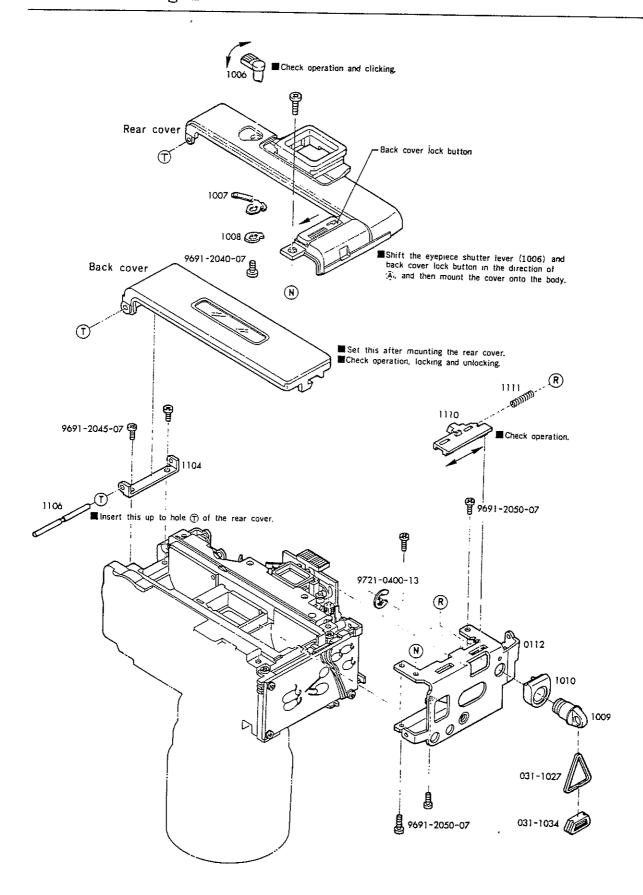
| Standard (V) | Aliowabie range |
|--------------|--------------------------------------|
| 2. 0 10.20 | Release should be locked at 1.75V. |
| 2. U 0.25 | Release should be possible at 2.20V. |

4 Minimum operation voltage

Standard There should be no abnormality until release locking.

Note: For performance guaranteeing voltage, refer to the inspection standard.

5 Outer casing-I



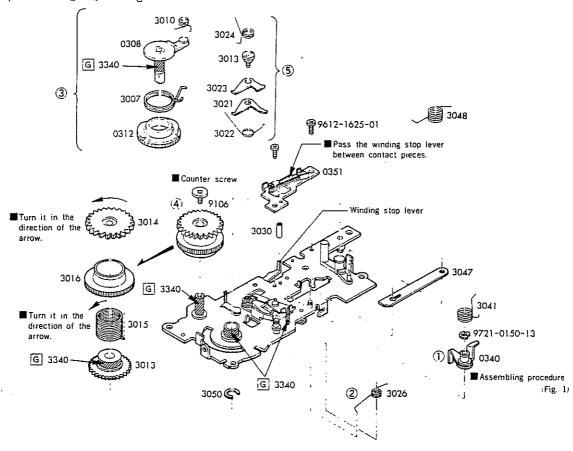
6 Outer casing- (Complete body)

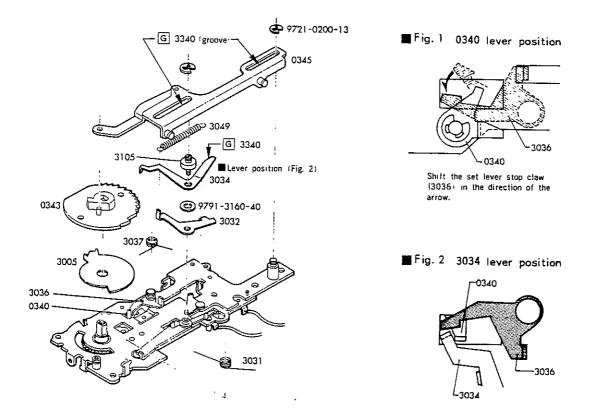
■ Check for dust in the finder, then mount the front cover, top cover and bottom cover in order. ■ This should be looser than 2208. T 273-2207-75 With aperture indication side kept on index side of top cover, push and turn it to let the groove engage with aperture connecting plate. T Universal compass set ■ Match the three holes with resistor contact base and then engage the smaller groove with aperture With button depressed. F connecting plate. set it at L position. Top cover Set aperture connecting plate as illustrated and match the macro lens knob with macro lens ring, Assembly procedure then set it up taking care not to catch flexible circuit (P. 34) Resistor contact base Aperture connecting plate ■Check and clean the contact piece. Marco lens knob Macro lens ring 9115 Insert LED here. 1017 Set the cover by sliding it from back cover side Bottom cover Front cover ■ Widen the cover in the direction of the arrow and fit it in body. Assembly procedure (P. 34) · G 3340

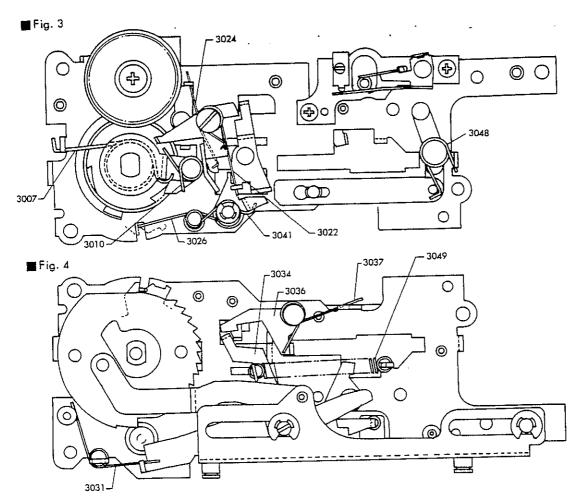
3101 2006-3303-75

Assembly of winding base plate

■Assemble the parts, setting the levers and springs in correct positions, in accordance with the procedure ①~⑤ in Fig. 3, 4.





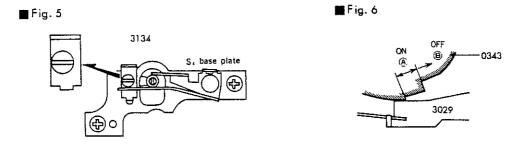


■Operation check

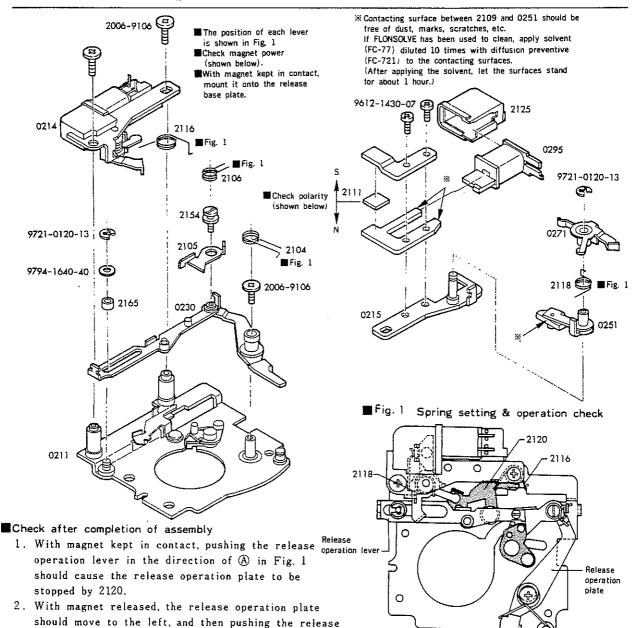
- 1. Temporarily fix the film advance lever, and disengage the winding set lever (3034) from set lever stop claw (3036). (Fig. 4)
- 2. Turn the film advance lever completely and then return it slowly to the original position, then the next winding should be impossible.
- 3. When 3034 is disengaged from 3036, winding should be possible.

■ S4 adjustment

- 1. Turn the S_4 adjusting pin (3134) as shown in Fig. 5.
- When shutter charge turning plate (0343) is slowly returned, check using the tester that
 is OFF with winding stop lever (3029) at (A), and ON with the lever at (B), as in Fig.
 If it does not turn ON, adjust by turning 3134.



Release base plate assembly

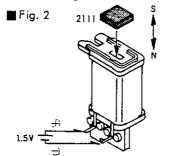


Magnet polarity checking

cause the magnet to come into contact again.

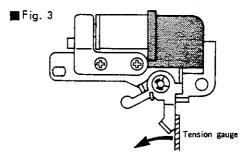
operation lever in the direction of (B) in Fig. 1 should

With D.C power source $(1.5\,\text{V})$ or battery connected to the terminal of magnet coil as illustrated below, the bottom polarity is N when release magnet (2111) is still.



Magnet power checking

Set the tension gauge as shown below and measure twice. Then the gauge should not come off at 100 g or less. If it comes off, check for dust or scratches on the contacting surfaces.

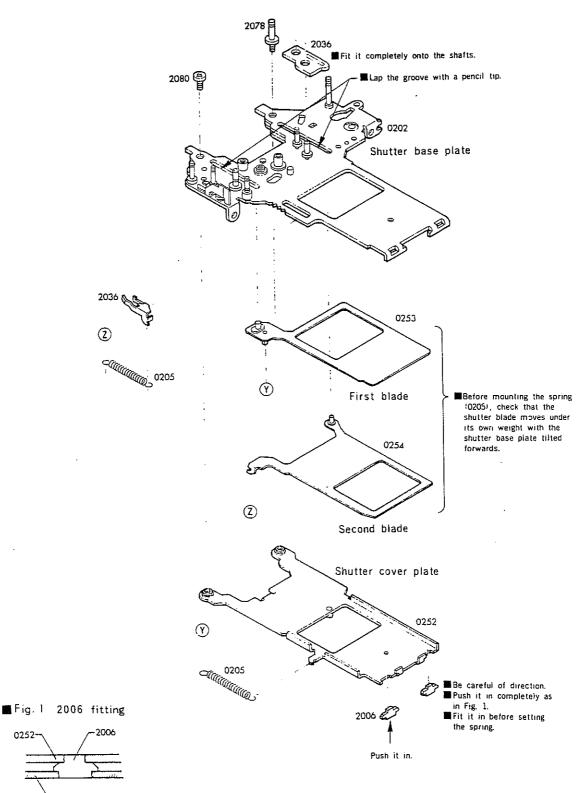


Shutter assembly-1

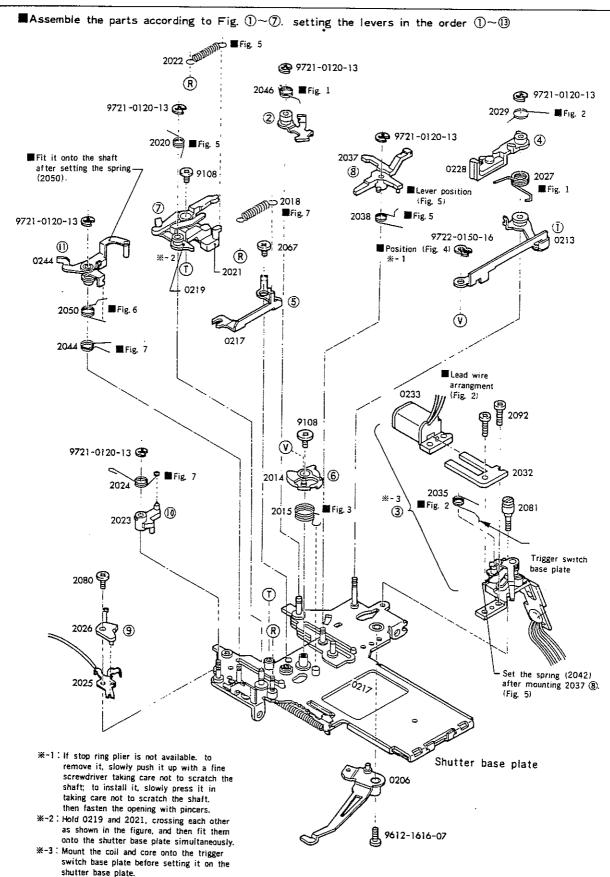
0252

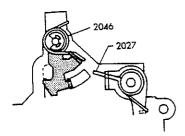
0202

- Assemble the parts according to the procedure given on P. 24 through P. 25, and check the performance.
- ■Be careful of fingerprints, grease, etc. on the shutter blade.



Shutter assembly-2





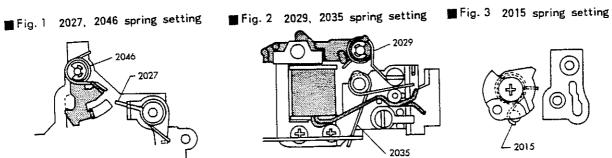


Fig. 4 Stop ring position

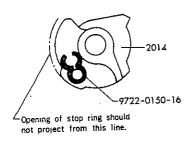


Fig. 5 2020, 2022, 2038, 2042 spring setting

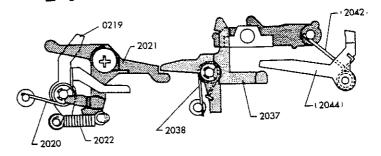
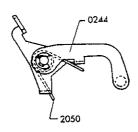
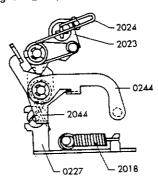


Fig. 6 2050 spring setting



■ Fig. 7 2018, 2024, 2044 spring setting



Shutter block performance checking

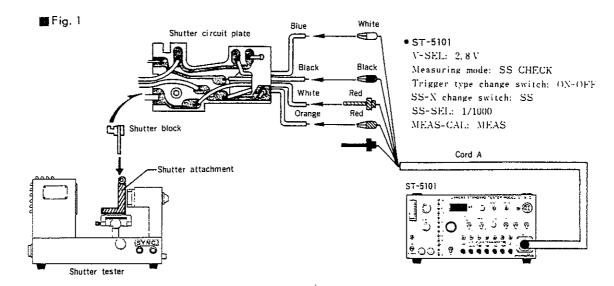
■Measuring instruments: Shutter tester (Model S-2101, FS1D-MN4)

: Camera standard tester (Model ST-5101)

: Shutter Attachment (273-0201-75)

Preparations

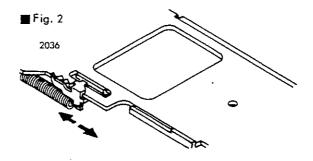
1. Position the shutter attachment on the camera base of the shutter tester



- Horizontal position ···· Adjust the position so that the picture frame center of the shutter
 is nearly aligned to the center of the light receiving section of the
 shutter tester.
- Vertical position By using the positioning lamp of the shutter tester or with the
 shutter block set onto the attachment, release the shutter and visually adjust by moving the camera base vertically so that the light
 receiving sections of ranges A and B of the shutter tester are
 positioned within the picture frame of the shutter.
- 2. Set the shutter block onto the attachment. Then release the shutter several times and check that the indication of the shutter tester is correctly given. If the indication runs, refer to the instructions of the shutter attachment.
- 3. Connect the 4 lead wires of the shutter block to the tester (ST-5101).

Measurement and adjustment

- Before measurement, make sure that the standard circuit is correctly operated by the SS-CAL button of ST-5101.
- Adjustment of uneven exposure
 Set the SS-SEL dial of ST-5101 to 1000 and adjust by changing the position of exposure
 adjustment plate (2036) so that the difference in indication between range A and B of the
 shutter tester is minimized.



2. Check and adjustment of 1/1000

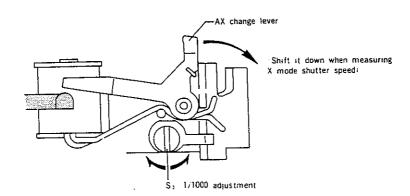
Set the SS-SEL dial of ST-5101 to 1000, then release the shutter several times, make sure that the indication of the shutter tester is within the range of 1.05 ms to 1.76 ms (standard value: 1.38 ms \cdots Note). Do the same with the V-SEL dial of ST-5101 set at 1.85(V). Note: When shutter attahment (273-0201-75) is used in the measurement, a correction value is added to the standard value because the measuring conditions are different from those in the measurement of an ordinary 35 mm camera.

- ullet When the shutter speed is outside the range of 1.05 ms to 1.76 ms, adjust by turning S_3 (trigger SW contact). (S_3 is re-adjusted during EE adjustment, and keeping the shutter speed within the specified range will facilitate EE adjustment.)
- If there is a great variation is shutter speed, check the operation of each lever, shutter blade operation, disengagement of second blade, and the condition of S_3 .

3. X mode shutter speed check

Shift down the AX change lever in the direction of the arrow in Fig. 3, then release the shutter with ST-5101 power switch set at OFF or disconnected from the shutter. In this case, the indication of the shutter tester should be 6.3 ms to 9.61 ms. (Standard value: $7.81\,\mathrm{ms.}\cdots No$ correction value in the case of X)

Fig. 3



Aperture base plate assembly

After mounting, fit the aperture dial and check B Screw-Lock clicking. ■Do not bend or soil 0422 the contact piece, 9612-1430-07 Clean here. 0403 9721-0150-13 🖎 9792-2140-40 0431 0450 9721-0150-13 9758-0150-00 G 3340 -9612-1616-07

Mode base plate assembly

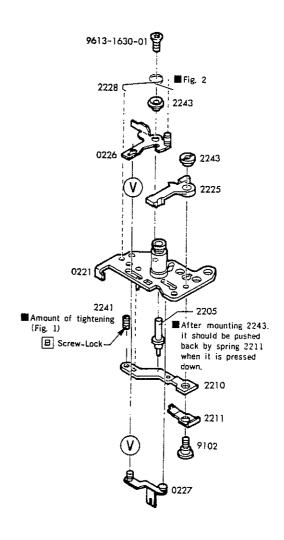


Fig. 1 Tightening of 2241

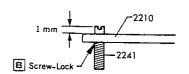
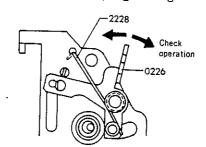
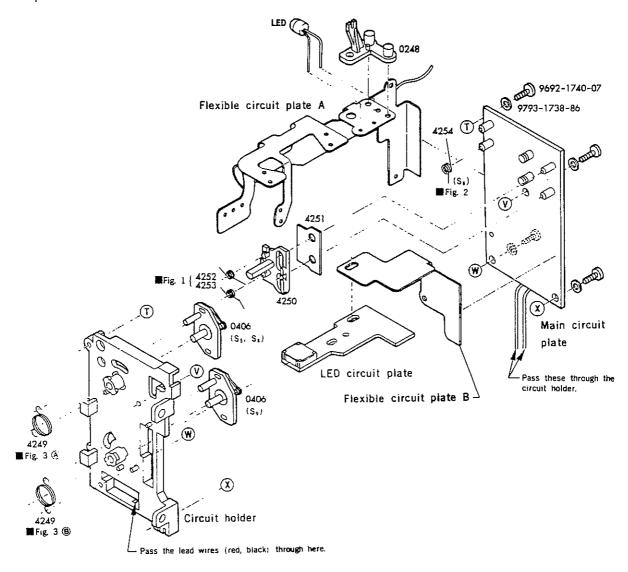


Fig. 2 2228 spring setting

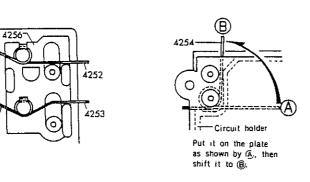


Circuit plate assembly

- ■During disassembly, take particular care not to allow the spring (switch contact 4254) to popout.
- ■During assembly, carefully clean the contact pieces, switch pattern, and pins of main circuit plate.



#Fig. 1 4252, 4253 spring setting ■ Fig. 2 4254 spring setting



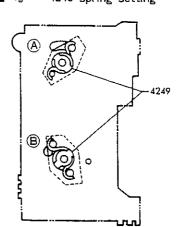
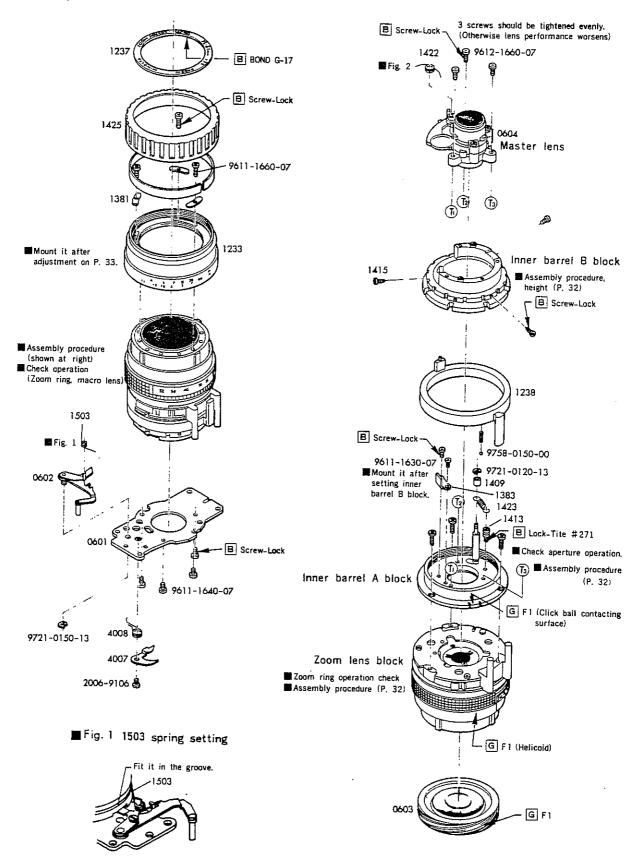


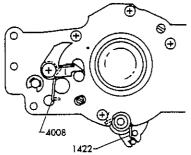
Fig. 3 4249 spring setting

Lens block assembly

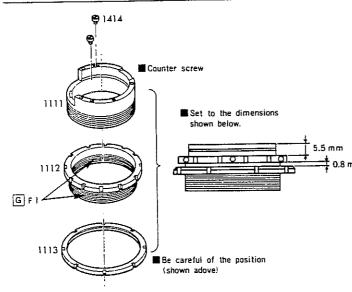
If the lens block is disassembled as shown on P. 31-32, make the focus adjustment according to the procedure on P. 33.



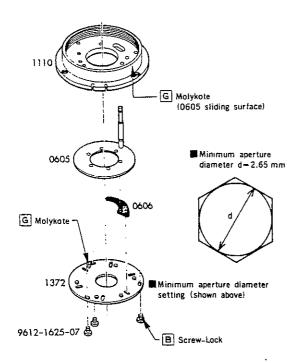
■ Fig. 2 1422, 4008 spring setting



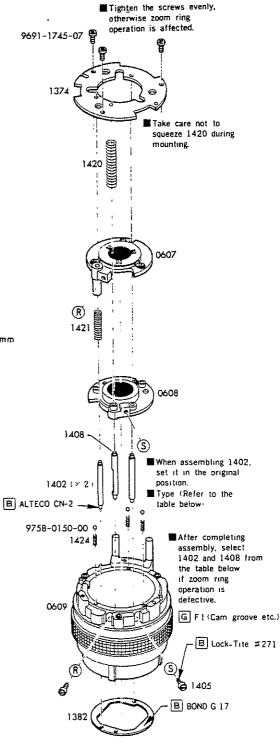
Inner barrel B block assembly



Inner barrel A bolck assembly



■ Zoom block assembly



■1402 (Moving lens guide bar-A)

| 3576-1402-01 | d = 2.0 mm |
|--------------|--------------|
| 3576-1402-81 | d = 2.01 mm |
| 3576-1402-82 | d=1.99 mm |

■1408 (Moving lens guide bar-B)

| 1 | 0.571 3.400 01 | |
|---|----------------|-------------|
| | 3576-1408-01 | di≖2.0 mm |
| | 3576-1408-81 | d=2.01 mm |
| | | |
| | 3576-1408-82 | d = 1.99 ոտ |

Focus movement and focus adjustment

Perform these adjustments when the lens block is disassembled as shown on $P.31\sim32$. If the lens block is not included in the disassembly procedure, perform only the focus adjustment on P.8.

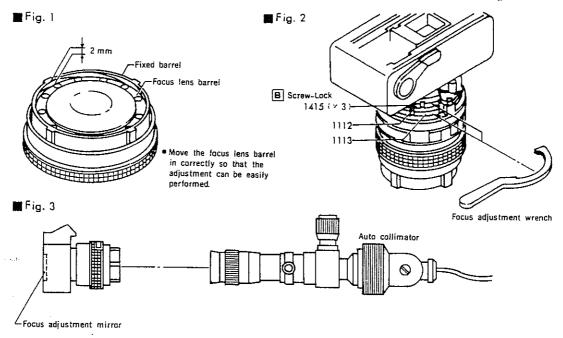
■Measuring instruments: Auto collimator (120 mm or 200 mm)

: Focus adjustment mirror (251-3357-76)

: Focus adjustment wrench (273-1112-75)

■Preparations

- 1. Rotate the focus lens barrel to move it in by 2mm from the fixed barrel front edge, as shown in Fig. 1.
- 2. Loosen the focus adjusting nut B (1113) and screw (1413 \times 3). (See Fig. 2)
- 3. Set the aperture to open, and set the camera opposite to the auto collimator. (Fig. 3)



Adjusting procedure

1. Adjust according to the items given in the table below.

| Step | Zoom ring | Auto collimator position | Adjustment & check |
|------|-----------|---|--|
| 1 | 25 mm | 200 mm····· +28 scale 120 mm···· +10.8 scale | Rotate focus adjusting nut A (1112) up to the optimum focus position. |
| 2 | 67 mm | 200 mm······ +4.3 scale 120 mm····· +1.7 scale | Turn the focus lens barrel to the optimum focus position. |
| 3 | 25 տա | | Rotate the object lens of auto collimator and check the focus position. 200 mm·····0 to +56 scale 120 mm·····0 to +21.6 scale If the scale is out of the above range, adjust it by repeating the steps 1 and 2. |

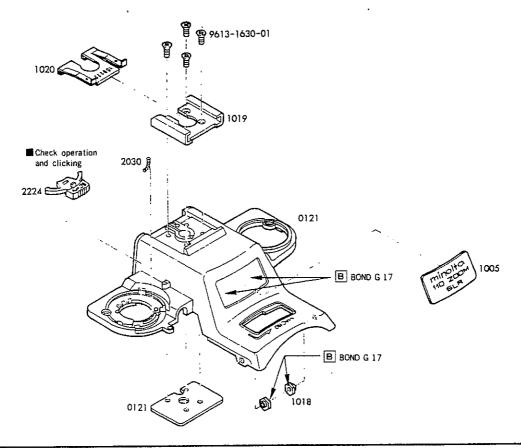
- 2. Evenly tighten the 3 screws (1415) followed by 1113, and then check that the focus position is within the range shown in the table.
- 3. Set the distance ring to infinity (∞) position, and secure it with distance scale ring setplate and 9611-1660-07. In this case, be sure that the focus lens barrel does not rotate.
- 4. Make sure that the focus position is within the range shown in the following table, and then aplly Screw-Lock to 1415.

(Standard)

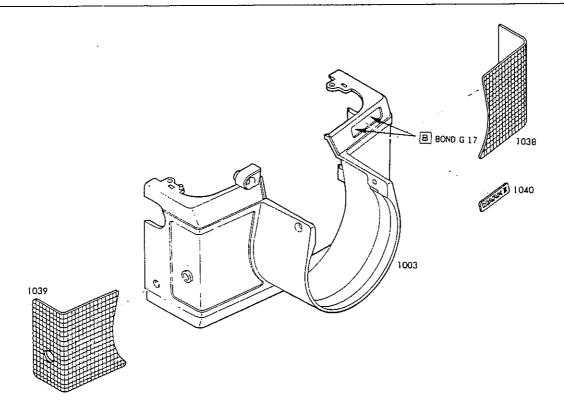
| Distance ring | Zoom ring | Auto c | ollimator |
|---------------|-----------|-----------------|-----------------|
| | 200m Ting | 200 mm | 120 mm |
| | | Allowable range | Allowable range |
| | 67 mm | +2.6~+6.0 scale | |
| | 25 mm | | 0~+21.6 scale |

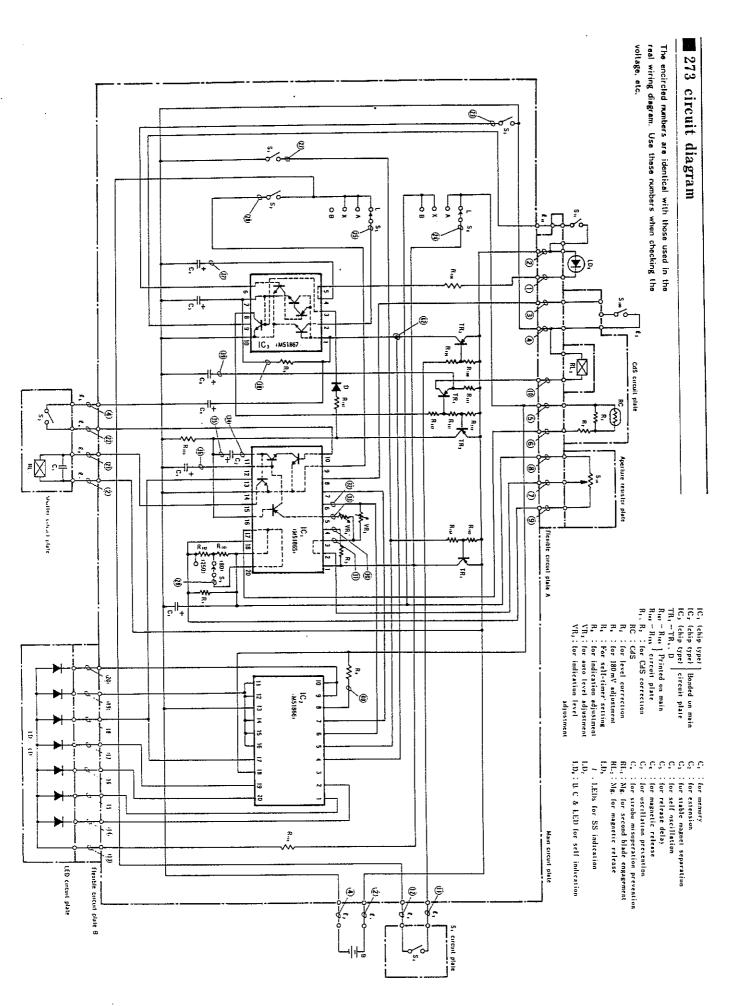
¥.,

Top cover assembly



Front cover assembly





■Supplement for 273 circuit diagram

1. In the circuit of 273, the touch switch circuit, manual switch circuit and high luminescence lock circuit are omitted from the circuit of 2006. Also, SS indication (LED) is simplified and the setting of X mode (refer to the next paragraph) is included, but basically this circuit is identical with the circuit of 2006. The circuit operations such as light measuring, calculation and control of 273 are the same as in 2006. Therefore, for the description of each circuit and the analysis of electrical troubles, refer to the circuit description and the trouble shooting chart in the Service Manual of 2006.

2. X mode

In the case of 273, when the mode dial is set to X, the mode switch (S_8) is shifted to X B side and simultaneously the shutter block is changed over to mechanical control mode. When the light measuring switch (S_1) is set to ON, a voltage nearly equal to the supply voltage is applied to the No. 2 terminal of IC_1 (output of measuring circuit) irrespective of luminescence and aperture. Accordingly, the memory voltage becomes highter than that in auto mode. If the shutter is released under such a condition, the shutter magnet is demagnetized as the shutter starts operating, but the magnet operation lever is maintained mechanically until completion of the first blade travel, therefore the shutter operates at X speed $(1/125~{\rm sec.})$.

3. Names of switches and operating conditions

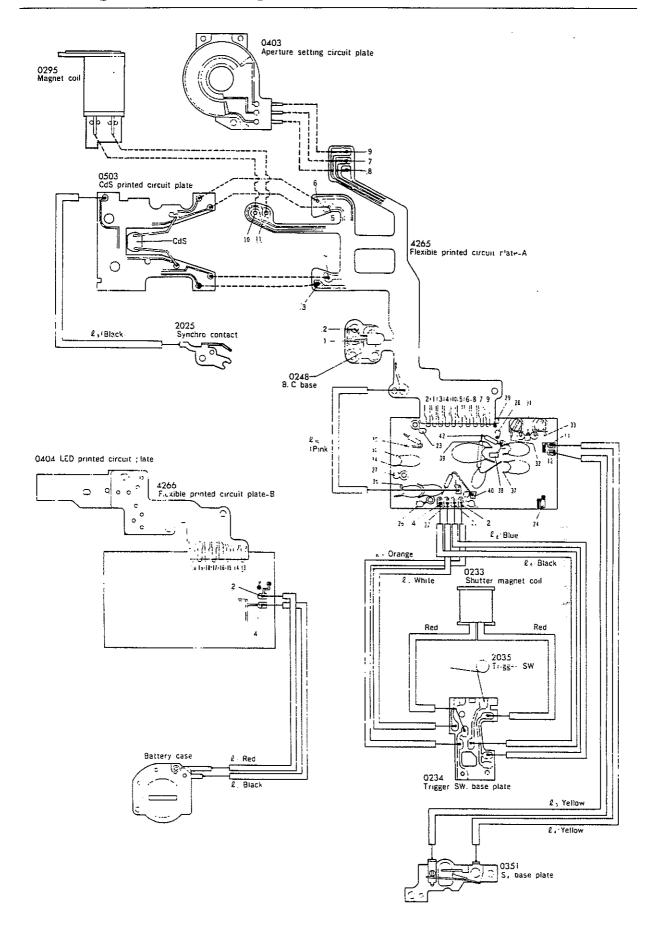
| SW | Name of switch | Operating conditions |
|----------------|---------------------------------|--|
| Sı | Light measuring switch | Interlocked with release button |
| S₂ | Release switch | (ON when depressed) |
| S ₃ | Trigger switch | OFF immediately after start of shutter first blade travel. |
| S, | Reset switch | ON with winding completed. |
| S; | Mode switch (Bulb switch) | Inter locked with mode dial. (OFF at B) |
| S ₆ | Self switch | Interlocked with self lever. |
| Sx | Mode switch | Interlocked with mode dial. |
| S ₉ | ASA switch | Interlocked with film cartridge (250 without cartridge) |
| S 10 | AV switch (aperture resistance) | Interlocked with aperture dial. |
| Si | B. C switch | Interlocked with SELF lever. |
| S :00 | Synchro switch | ON with shutter first blade travel completed. |

57 (main switch) used in 2006 is omitted in 273.

4. Three-layer circuit plate

In the case of conventional printed circuit base plate, the circuit patterns are printed only on one or both sides of a one sheet of circuit plate. In the main circuit plate of 273, the patterns are printed not only on both sides of the plate but also on the surface between them, therefore the plate being identical in area can include more solid circuits.

Wiring schematic diagram



Inspection Specification

- This specification includes the allowable quality levels in the production line so that we can guarantee the quality of products to the general users. The specifications are given in detail item by item so that you can refer to them when handling the requirements of users. Also, you can use the specifications for rechecking the products after completion of repair.
- When carrying out outgoing or incoming inspections, do not directly apply the specifications to the measured values but correctly understand the purposes of the inspections and then do the checkings, for instance, in accordance with the incoming inspection specification manual.
- 3. Some users with special purposes may sometimes require different specifications because they are not satisfied with this specification. In that case, give priority to the users' requests and then make the necessary adjustments after checking to see if they are possible or not.

273 Inspection Standards

| Items | Portions | Contents |
|--------------|--------------------------|--|
| Film winding | Film advance lever | Operation • Operation should be smooth without excessive uneveness in speed. • When lever is released at complete winding position it should not spring back. Looseness There should be no excessive looseness in vertical motion. (less than 0.3 mm) |
| | Film feed | Winding stop • Film should not stop at film leader, allowing continuous winding. • Film should stop at every frame, and each stroke should complete winding of each frame. • Film stopper should not work with cartridge sensor pushed in, and it should work after next winding with sensor shifted back, and it should be possible to release it. |
| | | Perceive lever Operation should be smooth when the lever is slide in the direction of winding gear with the finger, on completion of film winding. • Perceive lever should return to the original position after release. |
| | | Winding gear ··· • With cartridge inserted, gears should engage each other. • Gears should not run idle or reversely when resistnace is applied by hand while holding the cartridge sensor. |
| | Ratchet | Pawl should engage with every tooth, and with it disengaged, shutter charge and film feed should be complete. |
| Finder | Vision | Check for infinity (∞) matching, image deflection (less than 1.5°), dust, mark. |
| | LED indication | There should be no visual defect when viewed with the eye fixed in the right position. There should be no excessive dust, scratch, shade, etc. When finder is darkened, there should be no excessive leakage of light of LED. |
| | Visibility adjustment | Lever operation should be smooth and appropriate, and eyepiece lens should move smoothly permitting visibility changeover. |

| ltems | Portions | | | Conte | ents | | | | |
|---|---------------------|--|---------------|---|---------------|--------------------|-------------|--|--|
| Finder | Eyepiece shutter | Lever operat | ion…It shou | ld click without e | excessive loc | seness. | | | |
| Focus | | (Specification | on) | | | | | | |
| | | | | Auto c | ollimator | | | | |
| | | Zoom ring | | 200 mm | | 120 mm | | | |
| | | | Std. value | Reference value | Std. value | Reference value | | | |
| | | 67 mm | +4.3 | +2.6~+6.0 | +1.7 | +1.0-+2.3 | | | |
| | | | (scale) | (scale) | (scale) | (scale) | | | |
| | | 25 mm | | 0-+56 (scale) | | 0~+21.6 (scale) | | | |
| | | | | (SCATE) | | (scate) | | | |
| Back cover Opening/closing Back cover locking should be perfect without excessive looseness (less than 0.2 mm). When unlocked with cartridge inserted, back cover should smoothly come open. Cartridge Spring power should be sufficient, and it should return to the original posession. | | | | | | | ould | | |
| · | spring | even when p | pressed up to | o back cover plate se even when pulle | :. | | posterini | | |
| Mode dial/ | Mode dial | Operation It should click without excessive looseness. Lock • It should be locked completely at position A. • Dial rotation should be possible with lock button depressed. • Release button should be completely locked in lock position. | | | | | | | |
| Aperture dial | | | | | | | | | |
| | | Index deflecti | on…Center | of each character | should be in | contact with the | index. | | |
| | Aperture dial | Operation Check for defective movement, clicking, looseness (less than 0.2 EV in exposure). | | | | | | | |
| | | Index deflecti | on…Center of | of each aperture v | alue charact | er should be in c | ontact with | | |
| | Over-ride | | • It shou | ion should be smoo ld fit in lock gro on of each charac e. | ove complete | ely. | be | | |
| Shutter function | Release button | Operation | | elease should be siginal position. | smooth, and | release button sho | uld return | | |
| | | Push pressure | ··-250~-450 g | | | | | | |

| ltems | Portions | Contents | | | | | | |
|---------------------|------------------------|---|--|--|--|--|--|--|
| Shutter function | Release button | Stroke Start: 0.5±0.3 mm higher from button base. • LED ON: 0±0.3 mm from button base surface. • Release: 0.7±0.3 mm lower from button base. • LED ON until release: 0.5 mm at least. • Allowance: 0.3 mm at least. Lock position 0.25±0.3 mm higher than button base. (LED should not light up.) | | | | | | |
| | Shutter | It should work exactly when release button is pressed quickly or slowly. Shutter blade should not open during winding. There should be no bounce of blade and no re-exposure (causing no defect). Shutter speed should change according to the amount of light entering through the lens and the alteration of aperture. | | | | | | |
| | ASA detection lever | Operation Lever should operate smoothly and return to the original position correctly. | | | | | | |
| | | Both LED indication and shutter speed should change with the lever depressed. | | | | | | |
| Self-timer | Self-timer lever | Operation •• It should click, and returen (with hand off the B.C position.) • When lever is set to SELF and mode dial at L it should return to the original position. | | | | | | |
| | | Index With lever set to SELF, the index torange should not be shaded by self-timer lever. | | | | | | |
| | LED . | After pushing release button, I.El) should start blinking within 1 sec. and its blinking cycle should become faster just before release. Blinking cycle changes Release | | | | | | |
| | | • When SELF lever is shifted back within 3 seconds after pressing release button, self-timer operation should be cancelled exactly, allowing no release. | | | | | | |
| Lens block | Helicoid | Operation It should operate without squenking, looseness, excessive resistance, etc. | | | | | | |
| | | Stop position • Index deflection on infinity side should be less than 1/2 of character width. • Index should go beyond the character 1.1 on short distance side. 1.1 1.3 | | | | | | |
| | Zoom ring | Operation There should be spueaking, looseness, excessive resistance, etc. irrespective of camera position. | | | | | | |

| Items | Portions | Contents |
|------------------------|-------------------------|--|
| Lens block | Zoom ring | Stop position Deflection of character from the index at zoom ring stop position should be as follows: |
| | Macro lever | Operation • There should be no excessive irregularity catching, looseness. • With macro released, the lever should return to the original position. |
| Battery compartment | Contact piece | There should be no corrosion, soiling, bending, or improper contact pressure. |
| General performance | Auto exposure | The specification shown below should be satisfied. (Camera: ASA 80, EE tester: EE 2101, EE 2111) |
| | | Luminance Aperture Allowable range of EE tester indication Variation |
| g et | | BV 0 F 4 BV 4 F 3.5~F 4 BV 6 F 3.5~F 16 BV 9 F 4 +0.3±1EV Within 0.5EV |
| * e | Film speed changeover | The specification shown below should be satisfied. (Camera: ASA 250, EE tester: EE 2101, EE 2111) |
| | error | Luminance Aperture ASA Allowable range of EE tester indication |
| | , | BV 6 F 8 250(**) Within 0±1.0 EV & EE level of ASA 80±0.3 EV. |
| | | *Set ASA dial of EE tester (EE 2101, EE 2111) to 200. |
| | Over-ride changeover | The specification shown below should be satisfied. (Camera: ASA 80, EE tester: EE 2101, EE 2111) |
| | error | Luminance Aperture Over-ride Allowable range of EE tester indication |
| | | 0 +0.3±1.0 EV |
| | | BV 6 F 8 Check the EE error when the over-ride amount is 0; check EE when the over-ride amount is +2 to -2; and confirm that the over-ride error is within ±0.5 EV when its amount is 0. |

•

| Items | Portions | | | | Con | tents | | | |
|------------------------------|--|---|--|--|------------------------------|--|---------------|---|--------------------|
| General | LED | The specifica | ition shown | in the | table belo | ow should b | e satisfie | d. (Camer | a: ASA 80) |
| performance | indication | Luminance | Aperture | | Allowa | ble indicat | ion range | (± 1, 0 EV) | |
| | T | | | 250 | ❖ | ☆ | • | • | • |
| | | BV 6 | F 3.5 | 125 | • | ‡ | ❖ | * | • |
| | | | | 60-4 | | • | • | ÷0÷ | 30€ |
| | | | | | * | 菜 | A | A | A _ |
| | | BV 9 | F 3.5 | 1000 | • | ❖ | ❖ | ☆ | • |
| | | | | 500 | • | • | • | ❖ | ❖ |
| | | | | | | | | | |
| | | BA 0 | F 3.5 | 60-4 | ÷0÷ | 10: | • | | |
| | | | | | | ** | ₩ | | <u> </u> |
| Synchronizer | X delay time | Check with s | trobo reta | rder. | | | | | |
| | | | | | | r. X contac l appearanc | | | nd there |
| | Insulation resistance | 30 MΩ at lea | ast (D.C 5 | 500 V ins | ulation re | esistance m | eter) | | |
| Compatibility with strobo | LED indication | | sition otheralion utter speed at B.X), a | er than L of LED I should and LED | then se indication be indica | t the light n. ted until co 5 should bl | measuring | g switch to of charge npletion of | ON and Ino Charge. |
| | Synchronization . | On completion position. | on of charg | ze, synch | ronization | should be | attainable | e irrespect | ive of dial |
| Voltage | B.C voltage | Standar | d | Alle | wable ran | nge | 7 | o | |
| specification, etc. | | 2, 0 : 0, 20 | (X) | | not light light up a | up at 1.8 V | <i>i</i> | = . | |
| | | | ! | | | asuring tem | ー p: 25 C± | 5*C) · | |
| | Turn-OFF voltage for LED in finder | Standard | l.ED shou | ld light | up when | B.C is on. | | | |
| | Release lock voltage | Standar 2. 0 * 0.25 | (V) Rele | ase lock | owable randowald work a | ork at 1.75 | 51. | | |
| | Performance guarantee voltage | 1.85 V (%) % When rele release lock | ase lock v | | | | - | | required for |
| | Minimum operation voltage | There shoul | d he no ah | normalit | y with re | spect to sp | eed, etc. i | until relea | se lock. |

| ltems | Portions | 4.00 | | Conten |
|------------------------|-------------|------------------|---------------|--------|
| Voltage | Current | D.C power source | voltage: 2.8V | |
| specification, etc. | consumption | Item | Standard | |
| etc. | | B.C ON | 35 mA or less | |
| | | LED ON (1, 2) | 10 | |
| | | Light measuring | 10 mA or less | |
| | | Release, Self | 30 mA or less | |

Minolta